

Products 2011



ELAN®

"The ability to help someone go from a simple dedicated music distribution system to a full-fledged home control system, accessible from anywhere in the world, is what makes today so exciting for the industry. The fact is that everyone wants home control. With the ELAN g! Home Control System, everyone can have it."

*Chima Gale
360 Media Innovations*

elanhomesystems.com



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When you see this logo, the product is compatible with all g! products.



When you see this logo, the product is compatible with all VIA! products.



When you see this symbol, the product is available in either PAL, 230VAC or 240VAC Versions.

All information contained in this catalog is deemed reliable but is subject to change without notice.

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CONTROLLERS & SOURCES

Pre-Amp Multi-Room Controllers



S128P

Communications



C2
DOORSTATIONS

Integrated Multi-Room Controllers



S86P

Video Controllers



V85

V8

System Controllers



HC12

Tuners



DT11

HC6



HC8 and HC4

AMPLIFIERS

Digital



D16

Analog



A12



D12



A6



D660



LIGHTING CONTROL

Controllers



Dimmers, Switches & Modules



Lighting Kits



Installation Devices



IR SYSTEMS

Sensors



Emitters



Distribution



GENERAL PRODUCTS

Enclosures & Accessories



Precision Panels & Wall Plates



Power Supplies



Rotary & Slider Volume Controls



Sensors



“ The most powerful lineup of products in our 20 years.” – Paul Starkey



USER INTERFACES

Touch Screens



TS10



TS7



TS2



VL2

Handheld Remote



HR2



PC, iPad, iPod touch, iPhone, and TVs can all be user interfaces with a g! system.

SPEAKERS

Elios Architectural Speakers



E73D



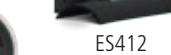
E72D



MDU Speakers



Elios Cinema Speakers



ES412



E650S

E532W

Outdoor Speakers



OE650

OE525



User Experience.

The single most important component of any system you install is the user interface. As far as your client is concerned, *it is the system*. With the introduction of the HR2 and the TS10, ELAN now has an outstanding user interface for all of your client's needs. The g! configuration program allows our interfaces to be programmed with amazing efficiency. With g!'s award-winning graphics and consistency of operation, you can rest assured that your client will enjoy using their system as much as you enjoyed installing it.



User Interfaces

User Interfaces

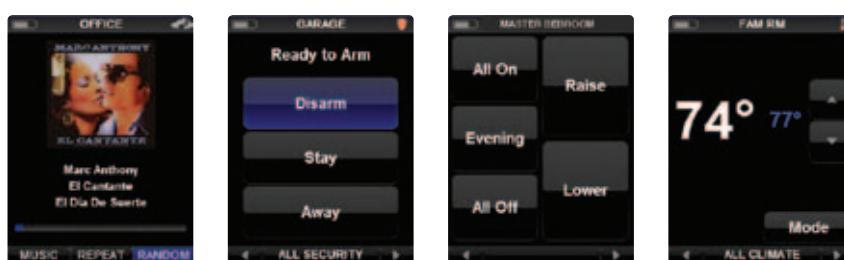
HR2 HANDHELD REMOTE

ORDER NO. HR2

ELAN's first-ever handheld remote control, the HR2, is a striking extension of the intuitive g! control system. It features all the function of a touchscreen packaged in a sleek remote weighing in at a mere 6.4 ounces. Its artistically sculpted, ergonomic design feels at home in your hand with a meticulously balanced grip, always ready to go in its elegant stand. Instant-on means you are never more than nanoseconds away from full use, triggered by a built-in accelerometer that instantly turns on the HR2 when you pick it up. Integrated Wi-Fi and IR ensure access to both rich content information as well as speedy local control of sources and TVs.

The real magic is how g! flawlessly integrates the 2.4" Active Matrix OLED touch display with the hard button array for a perfect blend of feedback and control for fun or serious use. While you effortlessly channel surf, you can also check the status of your security system, dim the lights, and adjust the temperature – without multiple or hard to hold, bulky controllers. Its Lithium Polymer battery powers the remote for ten hours with the display on and 14 days on standby. A stylish charging base is included and keeps the HR2 in a handy upright position – and ready to grab-and-go with minimal storage space.

The HR2 is easily integrated into your installation. It includes 46 hard buttons to make media system operation a breeze, an efficient instant on Wi-Fi transceiver with remarkable range, and outstanding battery life. With innovative features like convenient multi-zone operation, an IR blaster for equipment you can't get an emitter to, home zone defaulting, and interface templates for all of the popular sources the HR2 is the one remote to choose for all of your g! installations. It programs quickly and allows for substantial customization. The HR2 will instantly become your favorite hand held interface.



**INSTANT FEEDBACK AND CONTROL OF
MUSIC, SECURITY, LIGHTING, AND CLIMATE.**



FEATURES

- All the speed, response & graphics of a touchscreen
- All the ease-of-use, simplicity-of-programming & affordability of a remote control
- Controls all AV sources with metadata feedback for supported devices
- Controls security, lighting, and climate with metadata feedback
- 46 backlit hard buttons for common functions found on today's sources
- 2.4" AMOLED display
- Noiseless accelerometer for activating LCD or backlight
- Slim profile for ease of use and comfort
- Uses instant-on 802.11g for communication
- IR blaster for line-of-sight control
- Quick & easy programming using the ELAN Configurator
- Compatible with all g! System Controllers
- Supports all drivers that operate on other g! interfaces
- Ships standard with battery, charging base, power supply, and USB Cable

SPECIFICATIONS

OLED Display

Screen Size	2.4" diagonal
Viewing Angle.	180°up/down, 180°left/right
Operating Temperature . . .	32°F-104°F / 0°C-40°C

OLED Display

Connections



TS10 10" IN-WALL COLOR TOUCH SCREEN



ORDER NO. TS10



Bigger, brighter and easier to read! ELAN's next generation touchscreen interface, the 10" screen TS10, features a screen that has more than twice the screen surface than our popular 7" screen, is 15% brighter and is, of course, easier to read. The TS10 operates just like a TS7, incorporating finger swipe technology to provide super convenient access to Whole House Management and Entertainment control. Because the TS10 is a member of the g! family, your customer will experience the award-winning consistency of operation that g! is known for.

The TS10 is fundamentally a large TS7. It has all the same capabilities; high resolution 800x480 capacitive sensitive touchscreen (similar to many popular tablets), composite video full-motion viewing, g! user experience and hard buttons for common operations. The extra screen size allows you to use it in ways that you can't use a TS7. When was the last time you could purchase a 10" TV – you know, the ones that fit so well under the cabinet? Now that 10" TV can also display IP cameras and control the whole house! For some clients it is all about the size. The 10" screen gets you into those jobs and provides unparalleled ease of programming.

The TS10 also includes a built-in speaker and microphone – perfect for use with the messaging tab. Speaking of tabs, you get full system access with the TS10. Home, Security, Lighting, Pool, Irrigation, DVR, Climate, and Media controls are all available for control through the TS10. Oh, and think about how Mom's pictures will look playing on the 10" screen – there's a guaranteed upgrade right there.

Consider the TS10, or its desk/under-cabinet sister the VL10, for use in the kitchen, study, beside the master bed, or in the theater. Whatever the application the TS10/VL10 is the perfect upscale choice.

FEATURES

- 10-inch high-resolution Active Matrix LCD display
- Composite video for viewing TV sources or cameras
- 16:9 wide screen format
- Backlit hard buttons for commonly used functions
- Built-in speaker and microphone for messaging features
- Simple IP connectivity for communication
- Non-volatile flash memory
- Quick & easy programming
- Compatible with all ELAN controllers
- Easy retrofit installation
- Optional backbox and preconstruction brackets sold separately
- Screen saver mode displays user's photos
- Frames colors available: almond, light almond, ivory, & black
- Ships standard with white frame

FRAME ORDER NO.	WPTS10a	WPTS10la	WPTS10i	WPTS10b
	Almond	Lt. Almond	Ivory	Black

SPECIFICATIONS

Screen Size 10-inch diagonal, 16:9 widescreen
Viewing Angle 50° up/60° down, 65° left/right from center
Operating Temperature 32°F-104°F / 0°C-40°C

Display

Type Color TFT LCD
Colors 65K
Resolution 800W x 480H

Connections

Ethernet Port RJ-45
Download Port Mini USB
Power 2-position screw terminal
Video IN "F" Connector
Video Loop OUT "F" Connector

Wiring Requirements CAT-5 (Data)
16-18AWG 2 wire, RG-6 or RG-59 Coaxial Cable

Power Requirements +16VDC/350mA

Dimensions w/ Wall Frame

. (in.) 12 W x 7.06 H x 2.60 D
. (mm) 305 W x 179 H x 66 D

Dimensions w/o Wall Frame

. (in.) 11.62 W x 6.66 H x 2.28 D
. (in.) 295 W x 169 H x 58 D

Product Weight 3.8 lbs./1.72 kg

Shipping Weight 5.2 lbs./2.36 kg

ACCESSORIES

P. 7

Precision Panels, Wall Plates, Frames & Brackets

TS7 7" IN-WALL COLOR TOUCH SCREEN



ORDER NO. TS7



The award-winning g! interface marries its array of convenient control icons to the latest digital touchscreen technologies for ELAN's powerful touchscreen, the TS7. This elegant user interface means effortless Whole House Management and Entertainment is only a finger-swipe away for everyone in the family. The TS7's finger swipe access is a remarkably easy way to navigate and control even the most sophisticated systems. And the touchscreen's intuitive icons are uniform across all ELAN system controllers so there is never a learning curve – for even the oldest users!

The hardware driving the TS7 delivers great-looking graphics and video as well as top performance for years of enjoyment. The 7-inch, high-resolution 16:9 display uses the same screen technology as many popular tablets, with a resolution of 800 x 480 pixels. There is also composite video capability for viewing live TV sources or security cameras. The screen surface allows for finger-tip control although there is also a handy stylus for writing family notes. Also included are six backlit hard buttons for instant control of zone on/off, volume, mute and lighting.

The TS7's lightning fast response allows effortless access and control of installed Audio, Theater, Security, Climate, Messaging, Lighting, Video, DVR, Irrigation and Pool and Spa subsystems. In addition, the built-in speaker and microphone make family messaging a breeze. But the feature that will put a smile on everyone's face is the screen saver's photo mode. Load your digital photo collection onto the

system controller and the T7 will dazzle all with unexpected slide shows of cherished pictures between uses. Tie it all together with one of five designer frames and the TS7 offers a picture perfect control solution.

FEATURES

- 7-inch high-resolution Active Matrix LCD display
- Composite video for viewing TV sources or cameras
- 16:9 wide screen format
- Backlit hard buttons for commonly used functions
- Built-in speaker and microphone for messaging features
- Simple IP connectivity for communication
- Non-volatile flash memory
- Quick & easy programming
- Compatible with all ELAN controllers
- Easy retrofit installation
- Optional backbox and preconstruction brackets sold separately
- Screen saver mode displays user's photos
- Frames colors available: almond, light almond, ivory, & black
- Ships standard with white frame

FRAME ORDER NO.	WPTS7a	WPTS7la	WPTS7i	WPTS7b
	Almond	Lt. Almond	Ivory	Black

SPECIFICATIONS

Screen Size 7-inch diagonal, 16:9 widescreen
Viewing Angle 50° up/60° down, 65° left/right from center

Operating Temperature . . . 32°F-104°F / 0°C-40°C

Display

Type Color TFT LCD
Colors 65K
Resolution 800W x 480H

Connections

Ethernet Port RJ-45
Download Port Mini USB
Power 2-position screw terminal
Video IN "F" Connector
Video Loop OUT "F" Connector
Wiring Requirements CAT-5 (Data)
16-18AWG 2 wire, RG-6 or RG-59 Coaxial Cable

Power Requirements +16VDC/350mA

Dimensions w/ Wall Frame

. (in.) 8.59 W x 5.46 H x 2.60 D
. (mm) 218 W x 139 H x 66 D

Dimensions w/o Wall Frame

. (in.) 8.35 W x 5.16 H x 2.28 D
. (mm) 212 W x 131 H x 58 D

Product Weight 2.25 lbs / 1.02 kg

Shipping Weight 3.2 lbs / 1.45 kg

ACCESSORIES

P. 7

Precision Panels, Wall Plates, Frames & Brackets

TS2 IN-WALL TOUCHPAD

ORDER NO. TS2



Across all platforms the g! interface shines with the uniform look and feel that allows easy access and control. The TS2 features all the speed and power of a touchscreen with the affordability of a touchpad. This fully functional interface is family-friendly so that all users are only a touch away from the systems they have permission to use. The TS2 is built around ELAN's category-defining, award-winning Olé® Touchpads. It features all the speed, response and graphics of a touch screen with the ease-of-use, simplicity-of-programming and affordability of a keypad. The panel includes a light sensor for auto screen dimming and brightening and audible touch feedback through the built-in speaker. And it adds even more functionality with unprecedented support for music sources including full navigation and 2-way feedback, control of lighting scenes, climate control, and security arming/disarming. It also displays real-time

weather, forecast and time of day, setting a new standard for affordable control with feedback.

Whether on the wall or on a tabletop, the TS2 is easy on the eyes and décor-friendly. Its 2-inch high-resolution, bright, Organic LED display offers solid contrast and a wide viewing angle as a perfect match for the 3.75-inch backlit touch areas. Users can easily read system displays and clearly see the control area from anywhere in front of the screen. The TS2 ships with a standard white frame with four more colors available. The VL2 quickly converts the TS2 Touchpad from an in-wall to a tabletop controller.

Convert to a tabletop model by ordering the TS2 Conversion Kit

Order No. VL2



FRAME OPTIONS

EURO FRAME

Euro Wall Frame has smooth, rising contours with rounded corners – distinctly European.



WPEO2w WPEO2a WPEO2la WPEO2i WPEO2b
White Almond Lt. Almond Ivory Black

STANDARD FRAME

Designed to bring uniformity to a room by matching the look & dimensions of today's popular light switch plates.



WPSO2w WPSO2a WPSO2la WPSO2i WPSO2b
White Almond Lt. Almond Ivory Black

FEATURES

- All the speed, response & graphics of a touch screen with the ease-of-use, simplicity-of-programming & affordability of a keypad
- Controls Media, Lighting, Security, and Climate
- Light sensor for auto dimming & brightening
- Audible touch feedback through built-in speaker
- 2.0-inch, 18-bit, 262k color OLED display provides:
 - Expanded "Now Playing" metadata from 2-way sources
 - Multiple pages for easy source selection
 - DVD/DVR menu navigation & more
- Integrated IR receiver
- Connectivity for remote IR receiver
- IR In/Out port on back for quick connection of external IR signals
- Sense Trigger Input (future use)
- Quick & easy programming using configuration software
- Fits in a standard 2-gang box
- Converts to tabletop use by using the VL2 Conversion Kit
- Frames colors available: white, almond, light almond, ivory, & black in Standard Frame & Euro Frame styles
- Ships standard with white Euro frame

SPECIFICATIONS

Screen Size 3- 3/4 diagonal
Viewing Angle 180° up/down, 180° left/right
Operating Temperature . . . 32°F-104°F / 0°C-40°C

Display

Type 18 bit, 2.0" Organic LED (OLED)
Colors 262K
Resolution 220 W x 176 H

Connections

System Port RJ-45
Interface Port. 5-position screw terminal
Download Port. Mini USB
Wiring Requirements CAT-5
Power Requirements 12VDC/150mA or 16VDC/150mA

Dimensions w/ Wall Frame

. (in.) 4-5/8 W x 4-5/8 H x 1-3/16 D
. (mm) 117 W x 117 H x 30 D

Dimensions w/o Wall Frame

. (in.) 4-7/16 W x 4-7/16 H x 1-1/8 D
. (mm) 112 W x 112 H x 26 D
Fits in 32 cu in. double-gang electrical box
Product Weight 14 oz./0.4kg
Shipping Weight 16 oz./0.45kg

ACCESSORIES

P.7

Precision Panels, Wall Plates, Frames & Brackets



g!® on the go – mobility, accessibility, flexibility

The g!Series delivers complete accessibility and mobility for whatever popular device you wish to use. Whether it's your laptop, iPad, iPod touch, iPhone, – g! provides you a powerful and elegant user experience that puts total control right at your fingertips.

GVSL Viewer Software License

The g! Viewer Software License provides one seat to be installed on any ELAN HC Controller. One Viewer License is required for every third-party interface connected to a g! System at the same time; this includes iPhone, iPod touch, iPad and a computer. The GVSL is easy to install and can be added to a system by the dealer over the internet or while on site.

SSB12 Remote Annual Access Subscription

The g! Remote Access Annual Subscription enables the ELAN-managed remote access service allowing homeowners to easily and reliably log into their home without the hassle of a static IP address or some other cumbersome method for tracking the IP address of a home. The SSB12 provides 12 months remote access.

YOUR WORLD MADE SIMPLE



ACCESSORIES

SPP SYSTEM PRECISION PANEL

Use with TS10, TS7, TS2

ORDER NO. SPP



- The one Precision Panel for all ELAN Multi-Room Controllers
- For use w / S128P, S86P, S86A, all HC Series Controllers, and M86A
- Provides quick, clean, reliable connectivity for all system wire runs
- In-wall or rack-mountable w / PRM2 Precision Panel Rack Mount Kit

PPSP POWER SUPPLY PANEL

Use with TS10, TS7

ORDER NO. PPSP



- Supplies power for 3 (with PWR1) or 8 (with PWR4) in-wall panels
- PWR1 or PWR4 sold separately
- Single-gang Decora® design

PWR1/PWR4 POWER SUPPLIES

ORDER NO. PWR1/PR4

See page 74 for Power Supply specifications.



PPVN VIA!NET DISTRIBUTION WALL PLATE Use with TS2

ORDER NO. PPVN



- Provides Power to Four TS2's
- Provides Connection for IR from Four TS2's
- Includes 16v Power Supply

IRL2 IR LEARNER

Use with ONLY HC Series Controllers

ORDER NO. IRL2



- Connects to USB port
- Compatible with Common Resources Library

Touch Screen / Touchpad Frames, Brackets & Back Boxes

For TS7 Touch Screen

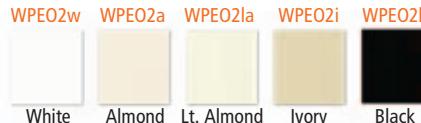


For TS10 Touch Screen



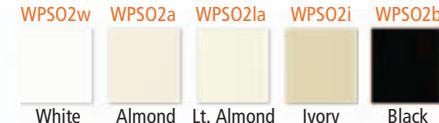
EURO FRAME

For TS2 and Ole Models



STANDARD FRAME

For TS2 and Ole Models



TS Touch Screen Brackets

ORDER NO. TS7BK For TS7

ORDER NO. TS10BK For TS10



TS Touch Screen Back Boxes

ORDER NO. TS7BB For TS7

ORDER NO. TS10BB For TS10



Brains and Beauty.

ELAN offers some of the most advanced electronics in the industry.

Our HC Series Home Controllers have set a new industry standard in power, ease of use and ease of programming, and our broad line of amplified and pre-amp only multi-zone/multi-room switchers offer solutions for installations both large and small. We invented the home communications controller in 1990, and it remains unique in the marketplace even today. See pages 28 and 29 for our video controllers because component video switching remains the most reliable way to route house wide high-definition video signals. People still want to see their CCTV cameras on something other than a PC, making composite video switching still a requirement. Our single and dual SIRIUS ready AM/FM tuners remain an integratable industry standard.



Controllers & Sources

INTRODUCING THE HC FAMILY OF CONTROLLERS



The revolutionary ELAN g! Series Home Automation System puts you in complete control of every part of your technology-centric life. Thanks to ELAN g! you are now never more than a finger tap away from managing your primary home, vacation home, and business – no matter where you happen to be! The ELAN g! HC Series System Controllers are the central nervous system of the entire ELAN g! Series. These remarkable, easy-to-use controllers allow you to effortlessly operate your entertainment, lighting, security, energy, and irrigation systems within and outside your home or business.

ELAN g! Series System Controllers provide expanded support for all ELAN AV controllers, display devices, in-home sources, and have built-in digital music and cloud content capability. The ELAN g! On-Screen Display (OSD) controls AV Systems, climate, lighting, security, IP cameras and displays phone call log, email, and photos.

With additional Pro Applications, these System Controllers also support CCTV DVR, irrigation, pool and spa functions – providing enhanced capability for all native applications. Models differ in mounting options, I/O ports and onboard hard drive storage (ideal for media entertainment or surveillance video recording). Use relays to automate projection screens, drapes, gates, garage doors and more.

All controllers can utilize a Networked Attached

Storage (NAS) drive for the storage of music and photos.

HC12 is the flagship of the HC controller line for rack-mounted entertainment based systems or rack mount security/DVR-centric systems. The HC12 supports nearly unlimited ELAN A/V controllers, Sunfire A/V Receivers, display devices, in-home sources, and has a built-in two-channel audio server capability. This powerful controller stores and streams two sources digital music out, records IP security cameras, controls AV switches and sources and integrates all home control systems.

HC6 is an entertainment-centric controller that provides all of the same integration as its big sister, the HC12, but without with fewer I/O ports and without the hard drive. Add your own NAS Drive and stream two music sources store DVR video storage.

HC8 is the perfect control-centric home controller. The HC8 easily mounts on a wall or in an ELAN structured wiring can in a basement or closet. The HC8 includes a hard drive for storing content and includes a video out for the On-screen display. Use the HC8 for whole-house can-mounted entertainment and control or second home management and security camera recording.

HC4 is the perfect single room controller that can expand into whole-house control. Pair the HC4 with the HR2 for the most powerful remote control available integrating the media experience and home control into one compact and powerful package. The HC4 streams one digital music source and provide the video for an on-screen display.

The HC System Controllers are part of the world's most advanced, easy-to-install user-friendly home automation system — the ELAN g! Series. Compatible for use with third-party systems and components, the ELAN g! Series offers the touchpads, touchscreens, handheld remotes, precision panels, and multi-zone/multi-room controllers you need to integrate every function of your home or business into a single system solution that's as intuitive as you are.



HC12 SYSTEM CONTROLLER

ORDER NO. HC12

▼ HC Series Flagship Model



The HC12 is the flagship of the HC controller line for rack-mounted entertainment based systems or rack mount security/DVR-centric systems. The HC12 supports nearly unlimited ELAN A/V controllers, display devices, in-home sources, and has a built-in two-channel audio server capability.

This powerful controller stores and streams two sources digital music out, records IP security cameras, controls AV switches and sources and integrates all home control systems. Use the HC12 video-out to drive a power interface on a TV screen.

The HC12 comes pre-loaded with all Base applications. It supports all Pro App's (GPASL) and Viewer Licenses (GVSL). See page 15 for a chart of Base App vs. Pro App capabilities.

The HC12 includes maximum connectivity and control with 12 RS-232 communication ports, an internal hard drive for media and DVR, four relays for automating functions such as drapes, gates and garage doors, and twelve IR outputs (outputs 7-12 require the PPWM Precision Panel).

See pg. 9 for the full story on g! controllers.

FEATURES

- Compact 1U rack-mount design
- Integrated IP, Serial, infrared control and sense inputs in a one-box design
- Easy plug n' play with TS2 Touchpad, TS7 & TS10 Touch Screens, HR2 Handheld Remote
- Supports iPhone, iPod Touch and iPad Interface devices
- High-res on-screen display (OSD) with included simple clicker, HR2 Handheld Remote or other third party universal remote controls
- Built-in two-output music player with online content
- Built-in 250GB storage for music, photos and security camera video storage
- Compatible with network attached storage (NAS) drives to access photos, music and store security camera video

- Support for two phone lines and eight voicemail boxes with optional USB modems
- On-board relays provide additional automation capabilities
- On-board IR generation and decoding
- Six Sense Inputs for triggering automated events
- Solid State Memory for Operating System (OS) storage increases reliability
- Fan-cooled case increases system reliability
- Rack ears included
- Auto power switching - 120/240VAC



SPECIFICATIONS

Connections

ELAN Sense Inputs (6)	3.5mm Connectors (Stereo)
IR Outputs (1-6)	3.5mm Connectors (Mono)
IR Outputs (7-12)	Requires PPWM
External IR Input	3.5mm Connector
Programming	RJ-45 Ethernet Port
Relays (4)	3-position screw terminals
Modems (2)	USB
Audio Outputs (2)	RCA
Video	720p

Internal Player Audio Output

Frequency Response	20 to 20 KHz +/-1dB
THD+ Noise (@1KHz)	<0.006%
Signal-to-Noise (A Weighted)	>102dB

Video Inputs

Component Video Input	1V Peak-to-Peak
Nominal	
Input Impedance	75 Ohm

Video Outputs

Selectable in Config Software	480p - 1080p
	50 Hz - 60Hz
Component Video Output	1V Peak-to-Peak
Nominal	
Input Impedance	75 Ohm
Video Gain	.Unity

Hard Drive

Storage Capacity	250GB
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General

Operating Temperature	32 °F to 131 Degrees° F
Operating Humidity	90 % Maximum (Non-Condensing)

Power Consumption	110-240V, 50-60 Hz - 60W
Relay Rating	24V AC/DC, 1 Amp Maximum
3.5mm IR Outputs	12VDC

Dimensions w/Feet (1U w/o Feet)

..... (in.)	17 W x 2-1/4 H x 14 D
..... (mm)	432 W x 57H x 356D

Product Weight: 11 lbs / 5.0 kg

Shipping Weight: 17 lbs / 7.75 kg

Certifications cTUVus, CE, FCC, CTIC

ACCESSORIES

P. 16

Precision Panels, Wall Plates, IR Learner,
ELAN Sensors
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HC6 SYSTEM CONTROLLER

ORDER NO. HC6



The HC6 was designed for less intensive integration applications than the HC12. It is designed to be located with a central equipment stack and has all of integration control capabilities of the HC12, but with fewer RS232 connections. The HC6 also lacks the internal hard drive of the HC12, but as with all g! controllers, is compatible with Network Attached Storage (NAS) hard drives. NAS drive use also enables DVR video storage. It features two music stream outputs, six RS-232 connections, two RS-485 connections, six sensor connectors, two relays and twelve routed and one common IR outputs. IR outputs 7-12 require a PPWM Precision Panel.

FEATURES

- Compact 1U rack-mount design
- Integrated IP, Serial ports, infrared control and sense inputs in a one-box design
- Easy plug n' play with TS2 Touchpad, TS7 & TS10 Touch Screens, HR2 Handheld Remote
- Supports iPhone, iPod Touch and iPad Interface devices
- High-res on-screen display (OSD) with included simple clicker, HR2 Handheld Remote or other third party universal remote controls
- Built-in two-source music player
- Compatible with network attached storage (NAS) drives to access photos, music and store security camera video

The HC6 is perfect for use in media centric installations where only a couple of other systems are going to be integrated as these installations generally require fewer serial connections. The RS-232 connections are the best way to connect surround receivers and multi-zone controllers. Additionally, many of today's televisions feature serial control inputs. Use the other connections for Climate, Lighting, or Security. If you need more than six IR outputs, attach a PPWM Precision Panel to access six more.

See pg. 9 for the full story on g! controllers.

SPECIFICATIONS

Connections

ELAN Sense Inputs	(6)	3.5mm Connectors (Stereo)
IR Outputs	(6)	3.5mm Connectors (Mono)
External IR Input	.....	3.5mm Connector
Programming	.....	RJ-45 Ethernet Port
Relays	(2)	3-position screw terminals
Modems	(2)	USB
Audio Outputs	(2)	RCA
Video	.....	720p

Internal Player Audio Output

Frequency Response	.....	20 to 20 KHz +/-1dB
THD+ Noise (@1KHz)	.....	<0.006%
Signal-to-Noise (A Weighted)	.....	>102dB

Video Inputs

Component Video Input	.....	1V Peak-to-Peak Nominal
Input Impedance	.....	75 Ohm

Video Outputs

Selectable in Config Software	.....	480p - 1080p 50 Hz - 60Hz
Component Video Output	.....	1V Peak-to-Peak Nominal
Input Impedance	.....	75 Ohm
Video Gain	.....	.Unity

General

Operating Temperature	.....	32 °F to 131 Degrees F
Operating Humidity	.....	90 % Maximum (Non-Condensing)
Power Consumption	.....	110-240V, 50-60 Hz - 60W
Relay Rating	.....	24V AC/DC, 1 Amp Maximum
3.5mm IR Outputs	.....	12VDC

Dimensions w/Feet (1U w/o Feet)

.....	.....	(in.) 17 W x 2-1/4 H x 14 D
.....	.....	(mm) 432 W x 57H x 356D

Product Weight: 9 lbs / 4.09 kg

Shipping Weight: 15 lbs / 6.82 kg

Certifications: cTUVus, CE, FCC, CTIC

ACCESSORIES

P. 16

Precision Panels, Wall Plates, IR Learner, & IR Sensors

HC8 SYSTEM CONTROLLER

ORDER NO. HC8



The HC8 is the integration centric member of the our Home Controller family. The HC8 is designed to mount on a shelf or in one our structured wiring enclosures (see page 71) and connect to any of the systems to which g! integrates, including Media. If your design provides for locating most of the gear in the mechanical room, then this is the controller for your installation. Include an 18" or 36" enclosure to ensure you have the space you need to do a professional installation.

The HC8 includes eight RS-232 ports, two RS-485 connections, four sensor connectors, two relays, and three IR outputs. The HC8 also includes a hard

drive allowing it to store music and photos and record IP cameras as well as two music stream outputs. The HC8 comes loaded with all Base Apps and is compatible with all Pro Apps (see page 15).

Finally, the HC8 does include connections for the g! OSD, allowing you to connect it to a monitor. Whether you have located the HC8 in a cabinet or if you are doing an centrally distributed component video distribution system, then the HC8 has the connections you need for a complete and professional installation.

See pg. 9 for the full story on g! controllers.

FEATURES

- Compact can or wall-mount
- Integrated IP, Serial, infrared control and sense inputs in a one-box design
- Easy plug n' play with TS2 Touchpad, TS7 & TS10 Touch Screens, HR2 Handheld Remote
- Supports iPhone, iPod Touch and iPad Interface devices
- High-res on-screen display (OSD) with included simple clicker, HR2 Handheld Remote or other third party universal remote controls
- Built-in dual-output music player with online content
- Built-in 250GB storage for music, photos and security camera video storage

- Compatible with network attached storage (NAS) drives to access photos, music and store security camera video
- Support for two phone lines and eight voicemail boxes with optional USB modems
- Two on-board relays provide additional automation capabilities
- On-board IR generation and decoding
- our Sense Inputs for triggering automated events
- Solid State Memory for Operating System (OS) storage increases reliability
- Fan-cooled case increases system reliability
- Wall & can mount brackets included
- External Power supply

SPECIFICATIONS

Connections

ELAN Sense Inputs (4)	3.5mm Connectors (Stereo)
IR Outputs (3)	3.5mm Connectors (Mono)
External IR Input	3.5mm Connector
Programming	RJ-45 Ethernet Port
Relays (2)	3-position screw terminals
Modems (2)	USB
Audio Outputs (2)	RCA
Video	720p

Internal Player Audio Output

Frequency Response	20 to 20 KHz +/-1dB
THD+ Noise (@1KHz)	<0.006%
Signal-to-Noise (A Weighted)	>102dB

Video Inputs

Component Video Input	1V Peak-to-Peak
Nominal	

Input Impedance	75 Ohm
-----------------	--------

Video Outputs

Selectable in Config Software	480p - 1080p
50 Hz - 60Hz	
Component Video Output	1V Peak-to-Peak
Nominal	
Input Impedance	75 Ohm
Video Gain	.Unity

Hard Drive

Storage Capacity	.250GB
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General

Operating Temperature	.32 °F to 131 Degrees° F
Operating Humidity	.90 % Maximum (Non-Condensing)
Power Consumption	.110-240V, 50-60 Hz - 60W
Relay Rating	.24V AC/DC, 1 Amp Maximum
3.5mm IR Outputs	.12VDC

Dimensions w/Feet (1U w/o Feet)

.(in.) 12-7/16 W x 1-11/16 H x 9-5/16 D	.(mm) 316 W x 43H x 237D
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Product Weight	.7.1 lbs / 3.23 kg
Shipping Weight	.12.25 lbs / 5.57 kg
Certifications	.cTUVus, CE, FCC, CTIC

ACCESSORIES

P. 16

Precision Panels, Wall Plates, IR Learner,
& IR Sensors

HC4 SYSTEM CONTROLLER

ORDER NO. HC4



The cutest member of the Home Controller family is the HC4. While he may be cute, this critter is a real animal. Featuring all the Base and Pro App capability of the other controllers, the HC4 is ready to do whatever you need. Do you have an installation that required 125 lighting loads, 8 thermostats, and a kick-butt home theater? The HC4 can handle it. How about a vacation house with a pool controller, an irrigation controller, a security system and thermostats all connected for monitoring and control from anywhere in the world? The HC4 can handle that too! What about the family room with a great media system and simple lighting and the client wants the best hand held remote in the world? Match an HC4 with an HR2 and you've got that client covered.

FEATURES

- Compact can or wall-mount
- Integrated IP, Serial, infrared control and sense inputs in a one-box design
- Easy plug n' play with TS2 Touchpad, TS7 & TS10 Touch Screens, HR2 Handheld Remote
- Supports iPhone, iPod Touch and iPad Interface devices
- High-res on-screen display (OSD) with included simple clicker, HR2 Handheld Remote or other third party universal remote controls
- Easily installs behind TV to add discrete OSD
- Built-in single-output music player with online content
- Compatible with network attached storage (NAS) drives to access photos, music and store security camera video
- Support for one phone line and eight voicemail boxes with optional USB modem
- Two on-board relays provide additional automation capabilities

The HC4 is a cost effective and wholly powerful Home Controller. It connects to four RS-232 devices, two relay controlled devices, includes two sensor inputs, and has two IR outputs that can be expanded to many more by using our IR connecting blocks (page 61). The HC4 also drives our award winning OSD interface and provide one stream of music from the internet and your clients NAS or computer based music. It comes pre-loaded with all Base Apps and is compatible with all Pro Apps (see page 15.)

See pg. 9 for the full story on g! controllers.



SPECIFICATIONS Connections

ELAN Sense Inputs (2)	3.5mm Connectors (Stereo)
IR Outputs (2)	3.5mm Connectors (Mono)
External IR Input	3.5mm Connector
Programming	RJ-45 Ethernet Port
Relays (2)	3-position screw terminals
Modem (1)	USB
Audio Output	3.5mm Connector (Stereo)
Video	720p

Internal Player Audio Output

Frequency Response	20 to 20 KHz +/-1dB
THD+ Noise (@1KHz)	<0.006%
Signal-to-Noise (A Weighted)	>102dB

Video Inputs

Component Video Input	1V Peak-to-Peak Nominal
Input Impedance	75 Ohm

Video Outputs

Selectable in Config Software	480p - 1080p 50 Hz - 60Hz
Component Video Output	1V Peak-to-Peak Nominal
Input Impedance	75 Ohm
Video Gain	.Unity

Hard Drive

Storage Capacity	.500GB
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General

Operating Temperature	.32 °F to 131 Degrees° F
Operating Humidity	.90 % Maximum (Non-Condensing)
Power Consumption	.110-240V, 50-60 Hz – 60W
Relay Rating	.24V AC/DC, 1 Amp Maximum

3.5mm IR Outputs	.12VDC
Dimensions w/Feet (1U w/o Feet)	.8-1/4 W x 1-9/16 H x 5 D .210 W x .40 H x .127 D

Product Weight: .2.4 lbs / 1.09 kg

Shipping Weight: .4.3 lbs / 1.95 kg

Certifications: .cTUVus, CE, FCC, CTIC

ACCESSORIES → **P. 16**

Precision Panels, Wall Plates, IR Learner, & IR Sensors and Mounting Bracket

System Controllers Comparison

HC4



HC6



HC8



HC12



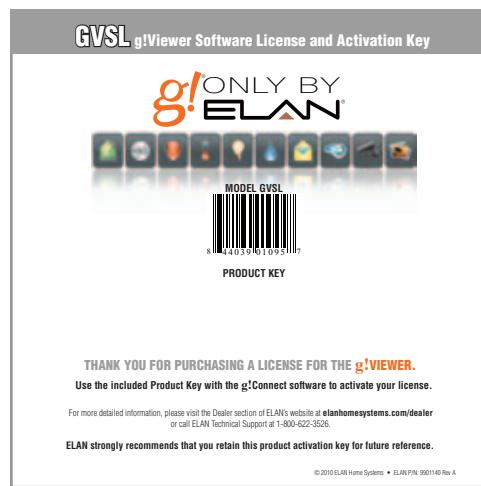
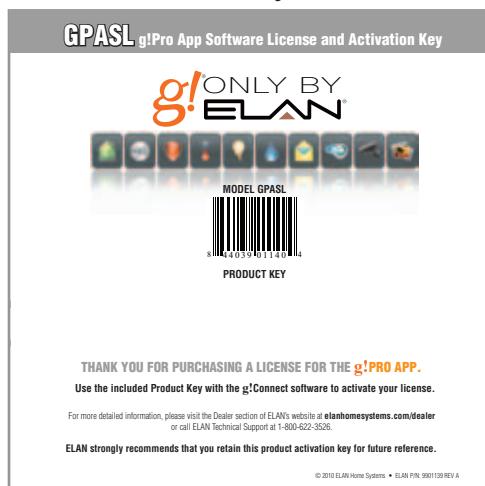
CONNECTIONS				
ELAN Sense Inputs	(2) 3.5mm Stereo	(6) 3.5mm Stereo	(4) 3.5mm Stereo	(6) 3.5mm Stereo
IR Outputs	(2) 3.5mm Mono	(1-6) 3.5mm Mono (7-12) via PPWM	(3) 3.5mm Mono	(1-6) 3.5mm Mono (7-12) via PPWM
External IR Input	(1) 3.5mm	(1) 3.5mm	(1) 3.5mm	(1) 3.5mm
Programming	RJ-45 Ethernet Port	RJ-45 Ethernet Port	RJ-45 Ethernet Port	RJ-45 Ethernet Port
Relay	(2) 3-position screw terminals	(2) 3-position screw terminals	(2) 3-position screw terminals	(4) 3-position screw terminals
Modem	(1) USB	(2) USB	(2) USB	(2) USB
Audio Outputs	(1) 3.5mm Stereo	(2) RCA	(2) 3.5mm Stereo	(2) RCA
Serial	(4) RS-232 (1) RS-485	(6) RS-232 (2) RS-485	(8) RS-232 (2) RS-485	(12) RS-232 (2) RS-485
Video	720p	720p	720p	720p
INTERNAL PLAYER AUDIO OUTPUT				
Frequency Response	20 to 20 KHz +/-1dB	20 to 20 KHz +/-1dB	20 to 20 KHz +/-1dB	20 to 20 KHz +/-1dB
THD+ Noise (@1KHz)	<0.006%	<0.006%	<0.006%	<0.006%
Signal-to-Noise (A Weighted)	>102dB	>102dB	>102dB	>102dB
VIDEO INPUTS				
Component Video Output	1V Peak-to-Peak Nominal	1V Peak-to-Peak Nominal	1V Peak-to-Peak Nominal	1V Peak-to-Peak Nominal
Input Impedance	75 Ohm	75 Ohm	75 Ohm	75 Ohm
Video Gain	Unity	Unity	Unity	Unity
HARD DRIVE STORAGE				
	N/A	N/A	250GB	250GB
GENERAL				
Operating Temperature	32 °F to 131 Degrees° F	32 °F to 131 Degrees° F	32 °F to 131 Degrees° F	32 °F to 131 Degrees° F
Operating Humidity	90 % Maximum (Non-Condensing)	90 % Maximum (Non-Condensing)	90 % Maximum (Non-Condensing)	90 % Maximum (Non-Condensing)
Power Consumption	110-240V, 50-60 Hz – 60W	110-240V, 50-60 Hz – 60W	110-240V, 50-60 Hz – 60W	110-240V, 50-60 Hz – 60W
Relay Rating	24V AC/DC, 1 Amp Max	24V AC/DC, 1 Amp Max	24V AC/DC, 1 Amp Max	24V AC/DC, 1 Amp Max
3.5mm IR Outputs	12VDC	12VDC	12VDC	12VDC
SIZE & WEIGHT				
Dimensions w/ Feet	(in.) 8-1/4 W x 1-9/16H x 5D (mm) 210W x 40H x 127D	(in.) 17W x 2-1/4H x 14D (mm) 432W x 57H x 356D	(in.) 12-7/16Wx 1-11/16Hx9-5/16D (mm) 316W x 43H x 237D	(in.) 17W x 2-1/4H x 14D (mm) 432W x 57H x 356D
Product Weight	2.4 lbs / 1.09 kg	9 lbs / 4.09 kg	7.1 lbs / 3.23 kg	11 lbs / 5.0 kg
Shipping Weight	4.3 lbs / 1.95 kg	15 lbs / 6.82 kg	12.25 lbs / 5.57 kg	17 lbs / 7.75 kg

Certifications: cTUVus, CE, FCC, CTIC

ELAN Home Systems reserves the right to change hardware, software features and specifications without notice.

SOFTWARE

For HC Controllers only.



GPASL g!PRO APPLICATION SOFTWARE LICENSE

ORDER NO. GPASL

The g! Pro App Software License provides one Pro App to be activated on an HC controller unlocking the Pro App functionality on any HC controller. One Pro App is needed for each App that you want to upgrade. You can activate this license remotely or while on site.

SSHB12 g!REMOTE ACCESS ANNUAL SUBSCRIPTION

ORDER NO. SSHB12

The g! Remote Access Annual Subscription enables the ELAN managed remote access service allowing home owners to easily and reliably log-into their home without the hassle of a static IP address or some other cumbersome method for tracking the IP address of a home. The SSB12 provides 12 months remote access.

It's About the APPS.

All g! Home Controllers come pre-loaded with Base Apps. Base Apps can be upgraded on an individual basis according to the need of your project by purchasing a Pro App. Pro App licenses are "generic" in that they can be used to upgrade any Base App to Pro App level functionality. This chart compares the functionality of the Base Apps and the Pro Apps."

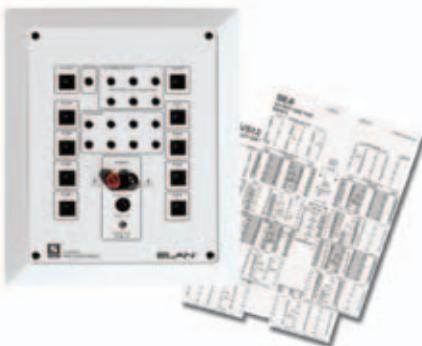
Application	Base Functionality (Included w/ Controller)	Added w/ Pro App
Media	Up to 32 ELAN A/V Zones Up to 8 Sunfire A/V Receiver Zones Up to 40 Display Devices 1 A/V Receiver (any Brand) Up to 30 in-home sources	Up to 32 A/V Zones (any Brand) Up to 8 AV Receiver Zones (any Brand) Up to 40 Display Devices
Climate	2 Thermostats	Up to 32 Thermostats
Lighting	16 Loads or System Scenes Up to 32 g! Viewer Keypads Up to 32 g! Viewer Scenes History using Graph Object	Up to 255 Loads or System Scenes Up to 64 Viewer Keypad/Pages
Security	1 Partition 8 Zones	8 Partitions 256 Zones
IP Camera	2 IP Video Streams	16 IP Video Streams
DVR	Not Available	Records all Cameras
Messaging	1 House Voicemail Box Internal Voicemail (not telephone)	8 User Voicemail Boxes Internal and Telephone Voicemail Remote hhhhMessage Retrieval Remote House Control Text-To-Speech
Irrigation	16 Groups (Virtual, for Demo Only) 256 Zones (Virtual, for Demo Only)	16 Groups 256 Zones
Pool/Spa	Virtual (For Demo Only)	1 Pool Control System
Other	Generic Serial Devices IR Devices Input/Output Devices Up to 8 E-Mail accounts UPS	

ACCESSORIES FOR g! CONTROLLERS

SPP SYSTEM PRECISION PANEL

For All ELAN Multi-Room Controllers

ORDER NO. SPP



- The one Precision Panel for all ELAN Multi Room Controllers
- For use w / S128P, S86P, S86A, M86A, S66A, SS1, TS2 and all HC Series Controllers
- Provides quick, clean, reliable connectivity for all system wire runs
- In-wall or rack-mountable w / PRM2 Precision Panel Rack Mount Kit

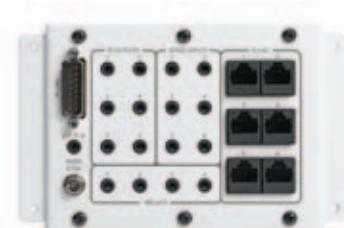
See pg 67 for dimensions

PPWM HEAD-END I/O

PRECISION PANEL

Use with all HC Series Controllers

ORDER NO. PPWM



- Required when using PPIR or PPRM
- Used to access HC6/12 IR outputs 7-12
- Must use PF2 Mounting Frame

PF2 PRECISION PANEL FRAME

Use with PPWM

ORDER NO. PF2

- For more information see pg 68



PPVN VIA!NET DISTRIBUTION

WALL PLATE Use with TS2

ORDER NO. PPVN



- Provides Power to Four TS2's
- Provides Connection for IR from Four TS2's
- Includes 16v Power Supply

PPIR ROOM IR TERMINATION

WALL PLATE

Use with all HC Series Controllers

ORDER NO. PPIR



- IR sensor connection point
- Serial or Ethernet pass-through
- 2 Cat-5e required for IR sensor and RS-232/Ethernet use
- Single-gang Decora® design

PPCM CAN MOUNT PANEL

Use with all HC Series Controllers

ORDER NO. PPCM



- Connects an enclosure-mounted controller to PPRMs and PPIR
- Mounts in Enclosure

PPRM ROOM IR OUT/SENSE

RELAY WALL PLATE

Use with all HC Series Controllers

ORDER NO. PPRM



- Connection point to distributor IR, sensor, relay, and serial or network
- Requires 2 Cat-5e to utilize all capabilities
- Easiest way to get connections from PPWM
- Single-gang Decora® design

PPIS IR TO SERIAL WALL PLATE

Use with all HC Series Controllers

ORDER NO. PPIS



- Converts IR signals to serial
- Simplifies connection of IR to HC Series RS-232 ports
- Single-gang Decora® design

IRL2 IR Learner

Use with ONLY HC Series Controllers

ORDER NO. IRL2



- Connects to USB port
- Compatible w/ Common Resources Library

SENSORS

Surface-mount, flush-mount or tabletop. CFL-friendly or extreme plasma conditions. ELAN carries a full line of high-quality IR Sensors. See IR Sensors beginning pg 58.

ACCESSORIES FOR g! CONTROLLERS

NWA18 NETWORK ASSEMBLY

ORDER NO. NWA18

The NWA18 provides a network for a g! System. It includes a data switch, wireless Router, and brackets to mount the assembly on the wall or in an ELAN Enclosure. The NWA18 provides a 18 available data ports and a WAN port to connect to an Internet modem. The Router comes preconfigured with the IP Address and port setting configured for standard g! Systems. This is the easiest way to get your network set-up simply and reliably and with Support from ELAN.



GMOD USB TO DIALUP MODEM

ORDER NO. GMOD



USB phone modem to enable modem features on an HC Controller.
Use up to two per controller.

Enclosures & Accessories

Enclosures for the HC4 and HC8 and their enclosure mounted accessories are available. For a professional installation don't forget to add these important items.

See Pages 71-73



Controllers & Sources

S128P MULTI-ROOM A/V CONTROLLER



INTERNATIONAL

ORDER NO. S128P



▼ ELAN's Flagship Model



Also Available in 240VAC Version (Order No. S128P-240)

The S128P is ELAN's most powerful and flexible multi-source/multi-zone controller to date.

Directly addressing the need to distribute more A/V sources to more rooms, the S128P has line-level inputs for 12 audio sources and a built-in high-definition video switcher for the distribution of both composite and component video sources. Additionally, the S128P has eight local source inputs, allowing you to place "private" audio sources in each zone (i.e. a CD player in the master bedroom).

The on-board video switcher provides the ultimate in flexibility. The S128P can route up to 16 composite video sources to any of its 16 video outputs. It can also distribute the Y/PB/PR signals from up to five component video sources and handle high-definition video signals for house-wide distribution. If you want to keep it simple, right out of the box the S128P's audio inputs are automatically linked with

the first 12 video inputs – just select a source and the audio and video will switch simultaneously.

One S128P can independently access music and video in up to eight zones. Up to four S128Ps can be linked together, giving the system designer and the homeowner the flexibility they need to create the system that's just right for their home and lifestyle – 8, 16, 24 or 32 independent listening and viewing areas.

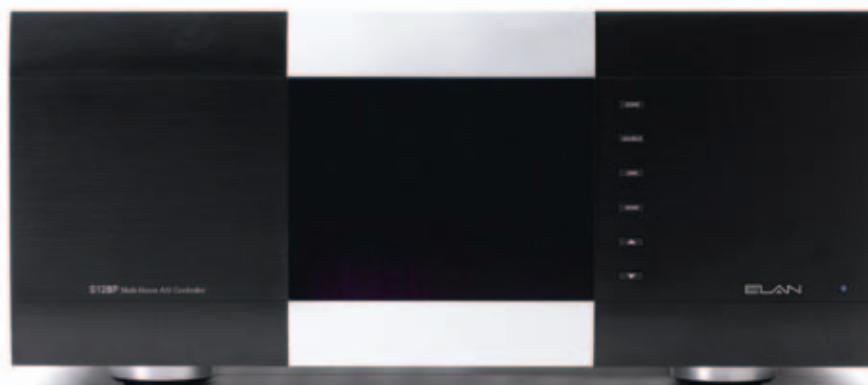
The S128P also incorporates a host of must-have features such as whole-house music, dynamic range compression, source leveling, bass and treble EQ for each zone, volume and EQ memory retention, and audio/video source-sensing for system feedback at keypads and touch panels.

Other features include variable and fixed zone audio outputs, buffered loop outputs for each audio and video source, source-specific IR routing, two IR

"ALL" ports, an external IR input, six sense trigger inputs, eight trigger outputs, expansion ports for the easy addition of a 2nd, 3rd or 4th S128P, and a serial port for external RS-232 control and programming. The SPP System Precision Panel makes all system connections quick, neat and reliable.

The S128P integrates easily with ELAN's C2 Communications Controller, providing homeowners with ELAN's patented telecommunication features. ELAN color CCTV cameras can be connected directly to the S128P so that homeowners can also see who is at the door, as well as monitor pool areas, nurseries, and more. And because the S128P is compatible both g! and VIA! systems, integrators can choose the implementation that best fits their needs.

Continued next page . . .



FEATURES

- 8-zone, multi-source/multi-zone A/V controller
- 12 audio inputs
- 8 local source audio inputs
- 16 video inputs & outputs
- Distributes composite, component & high-definition video
- Expandable to 32 zones
- Buffered audio & video loop outputs for each source
- Variable & fixed zone outputs
- Independent bass, treble & do-not-disturb for each zone
- Volume & EQ memory retention
- Audio & video source-sensing for system feedback
 - +/- 6dB source-leveling
- Zone-specific dynamic range compression
- 6 sense inputs
- 8 zone trigger outputs
- System trigger output
- Source-specific IR routing & 2 IR "All" ports
- External IR input
- RS-232 controllable

- Easy to program
- Compatible w / all ELAN user interfaces
- SPP System Precision Panel makes system onnections quick, neat & reliable
- When connected to an HC6/12 controller provides access to all twelve Controller IR outputs
- Expansion ports for easy connection of multiple chassis
- Blue vacuum fluorescent display shows zones, sources, volume, do-not-disturb, whole-house music status & more
- Easy integration w/ELAN C2 Communications Controller
- Rack-mount ears included
- Also available in 230V-240V for export

SPECIFICATIONS

Input Sensitivity 0-2 VRMS
Input Impedance 47k Ohms

PreAmp Outputs

Volume Adjustment Range	-70dB
Frequency Response	20Hz to 20kHz, +/-0.5dB
THD+Noise(@1kHz)	<0.02%
Signal-to-Noise (A weighted)	83dB
Crosstalk (zone to zone)	>-70dB
Output Impedance	600 Ohms

Music on Hold Output

Output Impedance 600 Ohms
Max Output Level +6dB

Page & Doorbell Input

Input Sensitivity 0-2V RMS
 Input Impedance 47k Ohms

Video

Gain Unity
Bandwidth (-3dB) 125mHz
Gain Flatness (0.1dB). 40mHz
Input Impedance 75 Ohms
Output Impedance 75 Ohms
Crosstalk >-64dB @ 5mHz

General

ACCESSORIES

Expansion Kit and Wall Plate

Controllers & Sources

S86P MULTI-ROOM A/V CONTROLLER



ORDER NO. S86P



Also Available in 240VAC Version (S86P-240)

Based on the award-winning technologies of ELAN's S128P, the S86P Multi-Room Controller offers many of same powerful features available on our flagship model to bring you one of the most versatile, scalable, and feature-rich multi-room controllers available today.

Eight audio/video inputs allow your clients to choose from all their favorite music and video sources – CD, DVD, DVR, iPod®, Satellite Radio and more. Each source can be seen and heard, independently, in up to six zones. Any combination of up to four S86Ps and S86As can be linked together to create 12-, 18- and 24-zone systems, providing you with complete flexibility to create the customized systems just right for your client's home.

Featuring discrete zone IR commands that allow any learning remote to control any zone, the S86P incorporates many more powerful features such as bass, treble, loudness EQ and programmable turn-on levels for each zone, whole-house music, and A/V source-sensing for system feedback at touch panels; all at a price that defies common industry trends.

The S86P also gives you the flexibility to customize the power delivered to each room. Choose from six ELAN amplifiers that encompass both analog and digital state-of-the-art technologies and provide you with a wide range of channel and power options. And because the S86P is compatible both g! and VIA! systems, you can choose the implementation that best fits your needs.

FEATURES

- 6-zone multi-room A/V controller
- 8 audio source Inputs
- 8 composite video source inputs
- PreAmp-only version allows you to customize your amplification needs
- Compatible w / all ELAN user interfaces
- Loss-free composite video distribution up to 300 ft.
- Buffered audio & video loop outputs
- Selectable variable/fixed preamp outputs
- Discrete zone IR commands
- Audio / Video status sensing
- Programmable turn-on levels for each zone
- Bass, treble, loudness & balance for each zone
- Programmable zone trigger outputs
- Sense inputs (6)
- 8-Source-specific IR output ports, plus "All" port
- Front panel USB download port
- Expandable to 12, 18 or 24 zones w / any combination of S86A & S86P (uses S12XK Expansion Kit)
- Rack-mount ears (incl.)

SPECIFICATIONS

Audio Inputs (8)

Input Sensitivity 0-2V RMS
Input Impedance 47k Ohms

PreAmp Outputs (6)

Volume Adjustment Range . . . -74dB to +6dB
Frequency Response . . . 20Hz to 20kHz, +/-0.5dB
THD+Noise (@1KHz) <0.02%
Signal-to-Noise (A Weighted). 95dB
Crosstalk (Zone to Zone) >105dB
Output Impedance 600 Ohms

Music on Hold Output

Output Impedance 600 Ohms
Max Output Level +6dB

Page & Doorbell Input

Input Sensitivity 0-2V RMS
Input Impedance 47k Ohms

Video

Gain Unity
Bandwidth (-3dB). 12MHz
Gain Flatness (1dB). 6MHz
Input Impedance 75 Ohms
Output Impedance 75 Ohms
Crosstalk -40dB @ 3.58MHz

General

Trigger Outputs. +12VDC @ 100mA ea.
Keypad Power 300mA @ 12VDC per zone
AC Power Requirements 120VAC, 150W
240VAC, 150W
Current Draw 1.3A @ 120VAC / 0.8 A @ 240VAC
Dimensions w / Feet (2U w/o Feet)
. (in.) 17 W x 4-1/8 H x 15-3/8 D
. (mm) 432 W x 105 H x 391 D
Weight 17.5 lbs. / 8 kg

Certifications cTUVus Certified, CE, IC C-tick, FCC

ACCESSORIES

P. 24-25

Precision Plates and Wall Plates



Controllers & Sources

S86A INTEGRATED MULTI-ROOM A/V CONTROLLER



ORDER NO. S86A



Also Available in 240VAC Version (Order No. S86A-240)

The S86A is the amplified version of the S86P and features an integrated 12 x 40WPC power amplifier.

The S86A combines all the virtues of our most affordable, entry-level system (the S66A) with the powerful features and flexibility of our flagship model (the S128P), to bring you one of the most versatile, scalable, and feature-rich multi-room entertainment system available today.

Eight audio/video inputs allow your clients to choose from all their favorite music and video sources – CD, DVD, DVR, iPod®, Satellite Radio and more. Each source can be seen and heard, independently, in up to six zones. Any combination of up to four S86As and the S86P (see pg. 20) can be linked together to create 12-, 18- and 24-zone systems, providing you with complete flexibility to create the customized systems just right for your client's home.

Featuring discrete zone IR commands that allow any learning remote to control any zone, the S86A also incorporates many more powerful features such as bass, treble, loudness EQ and programmable turn-on levels for each zone, whole-house music, and A/V source-sensing for system feedback at touch panels; all at a price that defies common industry trends.

And because the S86A is compatible with both g! and VIA! systems, integrators can choose the implementation that best fits their needs.

FEATURES

- 6-zone multi-room A / V controller
- 8 audio source Inputs
- 8 composite video source inputs
- Integrated 12 x 40 WPC power amplifier
- Compatible w / all ELAN user interfaces
- Loss-free composite video distribution up to 300 ft.
- Buffered audio & video loop outputs
- Selectable variable/fixed preamp outputs
- Discrete zone IR commands
- Audio / Video status sensing
- Programmable turn-on levels for each zone
- Bass, treble, loudness & balance for each zone
- Programmable zone trigger outputs
- Sense inputs (6)
- 8-Source-specific IR output ports, plus "All" port
- Front panel USB download port
- Expandable to 12, 18 or 24 zones w / any combination of S86A & S86P
- Optional Rack-mount Kit (RMK3)

SPECIFICATIONS

Audio Inputs (8)

Input Sensitivity 0-2V RMS
Input Impedance 47k Ohms

PreAmp Outputs (6)

Volume Adjustment Range -74dB to +6dB
Frequency Response 20Hz to 20kHz, +/-0.5dB
THD+Noise (@1KHz) <0.02%
Signal-to-Noise (A Weighted). 95dB
Crosstalk (Zone to Zone) >105dB
Output Impedance 600 Ohms

Music on Hold Output

Output Impedance 00 Ohms
Max Output Level +6dB

Page & Doorbell Input

Input Sensitivity 0-2V RMS
Input Impedance 47k Ohms

Video

Gain Unity
Bandwidth (-3dB) 12MHz
Gain Flatness (1dB). 6MHz
Input Impedance 75 Ohms
Output Impedance 75 Ohms
Crosstalk -40dB @ 3.58MHz

Amplifier Output

Power Output (RMS) per channel 30W @ 8 Ohms
Frequency Response 20Hz to 20kHz,
+/-1dB into 8 Ohms
Signal-To-Noise > 95dB (A-weighted)
Channel Separation > 70dB
(channel to channel @1kHz)
THD <.02% @ 1kHz, < 0.06% @ 10kHz

General

Trigger Outputs. +12VDC @ 100mA ea.
Keypad Power 300mA @12VDC per zone
AC Power Requirements 120VAC, 400W / 240VAC, 400W

Current Draw 3.4A @ 120VAC / 1.8A @240VAC
Dimensions w/ Feet (2U w/o Feet)

. (in.) 17 W x 4-1/8 H x 15-3/8 D
. (mm) 432 W x 105 H x 391 D

Weight. 22.5 lbs. / 10.2 kg

Certifications: cTUVus Certified, CE, IC, C-tick, FCC

ACCESSORIES

P. 24-25

Precision Plates and Wall Plates

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Controllers & Sources

M86A INTEGRATED MULTI-ROOM AUDIO CONTROLLER



ORDER NO. M86A



Also Available in 240VAC Version (Order No. M86A-240)

Multiple control methods bring flexibility and value to all g! installations. The M86A accommodates up to 12 TS2 touchpads (two per zone), also linking ELAN VIA!Net controlled devices. Source specific IR outputs control each of the systems eight audio sources. The six sense input triggers are used for conditional programming and to activate events like a lights-on sequence at night with a garage door opening. The unit also provides connections for Page and Doorbell options with the C2 Communications Controller.

The M86A has the switching muscle to bring all the benefits of g! IP-based, multiroom control to the most expansive and sophisticated of client installations. With eight audio sources and six zones, the M86A can be stacked to support up to 24 zones. Driven by a cool running 30 Watt per channel internal amplifier, the unit also features 12 variable or fixed preamp outputs to feed external amplifiers. This allows extra power for either outdoor coverage or a large zone with multiple speakers. Buffered loop audio outputs allow for system expansion or sources to be shared with home theater components without signal degradation. Programmable turn-on settings allow independent zone control for bass, treble and volume with "on-the-fly" adjustments. Also source leveling matches the volume of each audio source input for smooth source switching. The M86A also features source level matching so the volume of each audio source input matches the other for smooth source switching.

FEATURES

- 8 Sources / 6 Zones – expands up to 24 zones
- Built-in 30W x 12 channel amplifier
- Can connect to external amps when extra power is needed
- Direct connection for TS2 Touchpads
- Routable IR Outputs makes IR source control connections a breeze
- Front panel system status and troubleshooting feedback
- Group paging and music-on-hold features with the C2 Comm controller
- VIA!Net controlled by HC6 or HC12 System Controller
- Sense inputs for automated events
- Selectable variable / fixed audio preamp outputs
- Input source leveling of each audio source for smooth source switching
- Rack mountable
(requires the RMK3 Rackmount Kit)
- Available in 230/240 VAC version

SPECIFICATIONS

Audio Inputs (8)

Input Sensitivity 0-2V RMS
 Input Impedance 47k Ohms

PreAmp Outputs (6)

Max Output Power 6dB
 Frequency Response . 20 Hz to 20kHz, +/-0.5dB
 THD-Noise (@1Khz) <0.02%
 Signal-to-Noise (A Weighted). >95dB
 Output Impedance 600 Ohms

Amplifier Output

Power Output (RMS) per channel 30W @ 8 Ohms
 Speaker Impedance. 8 Ohms
 Frequency Response . 20 Hz to 20kHz, +/-0.5dB
 THD-Noise (@1KHz) <0.02%
 Signal-to-Noise (A Weighted). >95dB

Music on Hold Output

Output Impedance 600 Ohms
Max Output Level +6dB

Page & Doorbell Input

General

Certifications: cTUVus Certified, CE, IC, C-tick, FCC

ACCESSORIES

Precision Plates and Wall Plates

ACCESSORIES FOR S SERIES & M SERIES CONTROLLERS

SPP SYSTEM PRECISION PANEL

Use with all S Series and M Series Controllers

ORDER NO. SPP

- The one Precision Panel for all ELAN Multi-Room Controllers
- For use w / S128P, S86P, S86A, S66A, SS1, all HC Series Controllers, and M86A

See pg. 67 for complete features & specifications



RSPW REMOTE SOURCE WALL PLATE KIT

Use with all S Series and M Series Controllers

ORDER NO. RSPW

- Locate any multi-room source up to 300 ft. from head end
- For use w / S128P, S86P, S86A, S66A, M86A or any stand-alone application

See pg. 71 for complete features & specs



LSPW LOCAL SOURCE WALL PLATE KIT

Use with all S128P

ORDER NO. LSPW

- Specifically designed for use w / the S128P's eight Local Source Inputs
- Sends audio & IR from any local source back to the S128P over a single run of Cat-5

See pg. 70 for complete features & specs



CVWP COMPONENT VIDEO WALL PLATE KIT

Use with all S128P

ORDER NO. CVWP

- Sends loss-free Component Video up to 500 ft. over a single run of Cat-5
- Ideal for S128P Component Video distribution

See pg. 70 for complete features & specs



MORE ACCESSORIES NEXT PAGE ...

ACCESSORIES

FOR S SERIES & M SERIES CONTROLLERS

S12XK MULTI-ROOM CONTROLLER EXPANSION KIT

For use with S128P, S86A & S86P

ORDER NO. S12XK



The S128P and S86A and S86P Multi-Room A/V Controllers allow you to link up to four chassis together, providing you with the flexibility to create greatly expanded multi-zone systems. The S12XK Expansion Kit includes all the essential cables for routing IR, RS-485, RS-232, page audio and page trigger between two S128P or two S86A / S86Ps.

FEATURES

- Expansion kit for S128P, S86A / S86P and M86A systems
- Cables route IR, RS-485, RS-232, page audio & page trigger between chassis
- 1 kit required for each 2nd, 3rd or 4th S128P, S86A / S86P and M86A in a system (3 kits max.)

The kit includes:

- (1) 1-meter 15-pin D-Sub cable for IR / RS-485 transmission between chassis
- (1) 1-meter 9-pin D-Sub cable for serial data transmission between chassis
- (1) 18 in. 3.5 mm "mini" plug interconnect cable for PG/DB Trigger connections between chassis
- (1) 18 in. male RCA-to-RCA cable for page audio connections between chassis

Note: Does not include cables for routing source audio and video between chassis.

PSP12 12-PAIR SPEAKER PRECISION PANEL

ORDER NO. PSP12



FEATURES

- Easy-turn hex nut binding posts
- Connect speakers in every room to amps at the head end
- Full-size panel w / connections for 12 pr. of speakers
- Binding posts accept up to 12AWG, spade lugs or banana plugs

PSP12 Dimensions

Wall Cutout (in.) 8 W x 10-1/2 H

(mm) 204 W x 267 H

Installed w / frame

(in.) 9-3/4 W x 12 H

(mm) 248 W x 305 H

PMP6 6-HOLE MODULAR PRECISION PANEL

ORDER NO. PMP6



V85 COMPONENT VIDEO CONTROLLER



ORDER NO. V85



Also available in 240VAC Version (Order No. V85-240)

The V85 Component Video Controller not only meets the rigid standards of 1080p hi-def video, but adds the convenience of being able to distribute the bold, brilliant pictures of hi-def video throughout the house over Cat-5 cable.

The V85 provides an 8 x 8 switching matrix, allowing up to eight component video sources to be viewed independently or simultaneously on eight different high definition TVs or monitors.

RS-232 and IR-controllable, the V85 integrates seamlessly into any whole-house system, allowing one-touch access to component video sources from any touch panel, keypad or remote control. The "active" IR port even supplies power to ELAN IR Sensors.

Using Cat-5e cable, the V85 can distribute component video signals up to 500 feet; and with its active differential output driver design and high definition receiver / equalizer chip-set, whatever you pipe into the V85 is exactly what you'll see at the other end. Eight independent RJ-45 jacks make for easy Cat-5 connection at the back of the unit.

The V85 also has eight sets of Y/P_B/P_R component video outputs that use standard RG-6 coaxial cable to send component video signals to TVs or monitors up to 300 feet away. An additional eight sets of buffered component video outputs make it easy to loop sources to additional V85s. Up to four V85s can be linked together to create an expanded 8 x 32 component video switching matrix.

The V85 can be paired up with the V8 Composite Video Controller, which can be used to route SPDIF Digital Audio. The combination of the two units allows you to distribute HD Component Video and SPDIF Digital Audio to 8 zones with just 2 cable runs (CAT-5e and Coax).

Once again ELAN's award-winning innovation and experience in multi-room A/V distribution has enabled us to manufacture a component video switcher that distributes the highest quality video – from more sources – to more TVs / monitors – over longer distances – than similar components costing two, three or even four times as much. Experience the unique power of the V85.

FEATURES

- 8 x 8 Component Video Switcher
- Expandable to 8 x 32 w / additional units
- RS-232 & IR-controllable
- Uses Cat-5 (up to 500 ft.) & / or RG-6 coax (up to 300 ft.)
- Independent, powered Cat-5e RJ-45 jacks for fast & easy wall plate connection
- Color-coded Y/P_B/P_R component video inputs & buffered loop outputs
- Unity gain design means no signal loss over long distances
- High-performance video chip-set for minimum crosstalk

- "Active" IR port for powering ELAN IR Sensors
- Selectable 9.6k or 19.2k baud rate
- Front panel LED display shows zone & source for easy setup & troubleshooting
- Rack Mount ears included

SPECIFICATIONS

Inputs

Component Video (8 sets) RCA-type Y/P_B/P_R, Y - 1Vp-p, P_B/P_R - 0.7Vp-p Nominal

Input Impedance 75 Ohm

Outputs

Component Video (8) RJ-45 for Cat-5
(8 Sets) RCA-type Y/P_B/P_R
(8 Sets) buffered loop, RCA-type Y/P_B/P_R

Output Impedance 75 Ohms

Video Gain Unity

Bandwidth 140MHz, -3dB min.

Gain Flatness 80MHz, 0.1dB min.

Differential Phase 0.02 deg. Typical

Differential Gain 0.02% Typical

Crosstalk > 83dB@5MHz; > 76dB@10MHz

Off Isolation > 93dB@10MHz

Control Ports

IR In / Out (2) 3.5mm jack

RS-232 In / Thru (2) DB-9

VIA!Net In / Thru (2) RJ-45

Power Requirements 120VAC, 20W
(80W@full load w / 8 - wall plates)

Dimensions w/ Feet (2U w/o Feet)

. (in.) 17 W x 4-1/8 H x 14 D

. (mm) 432W x 105H x 356D

Weight 12.5 lbs / 5.7 kgs

Certifications: cTUVus, CE, C-Tick, FCC part 15

COMPONENT VIDEO RECEIVE PLATE ORDER NO. CVRM

Provides an easy, loss-free way to terminate Cat-5 wire runs. See pg. 70



V8 COMPOSITE VIDEO CONTROLLER



ORDER NO. V8



Also available in 240VAC Version (Order No. V8-240)

The V8 is ELAN's next-generation Composite Video Controller.

Building on the legacy of the Z•880, the V8 Composite Video Controller continues the tradition of outstanding performance, versatility and reliability by adding even more must-have, system-enhancing features.

The 8-in by 8-out V8 is the perfect video switcher for routing composite video signals to VIA! Touch Panels throughout the house. Add a V8 to a S128P Multi-Room Controller to keep its component video switching capabilities reserved for hi-def sources. Or add a V8 to an S66A to turn it into an A/V controller. The V8 is also ideally suited for residential or commercial CCTV security camera applications.

This "next generation" composite video switcher incorporates new features that make it even more powerful and flexible than its best-selling predecessor. Added are eight buffered video loop outputs for easy expansion or source sharing, RS-232 DB-9 IN and THRU ports for easy serial control, and VIA!Net IN and THRU jacks for quick ELAN product integration and control. The "active" IR port even supplies power to ELAN IR Sensors.

Up to four V8s can be linked together to create an 8-in by 32-out composite video switching matrix. Unit ID switches make multi-V8 setup a breeze and a front-panel LED display makes it easy to track zones and sources for setup and troubleshooting.

The V8 can also route SPDIF Digital Audio over coaxial cable. Pair it up with a V85 and you can distribute HD Component Video and SPDIF Digital Audio to 8 zones with just 2 cables runs (CAT-5e & Coax).

FEATURES

- "Next Generation" 8 x 8 composite video controller
- Ideal add-on for enhanced ELAN Multi-Room Controller video switching
- Perfect solution for security camera switching & monitoring
- IR & RS-232 controllable
- Buffered loop outputs for easy expansion & source sharing
- Expandable to 32 outputs by linking up to 4 chassis
- Front panel zones/source display & IR activity indicator
- "Active" IR port for powering ELAN IR Sensors
- Easy to program w / ELANTOOLS "Autofill" feature
- Rack mount ears included

SPECIFICATIONS

Inputs

Composite Video(8)1V p-p nominal
Input Impedance. 75 Ohms

Outputs

Composite Video (8)
Buffered Loop Video (8)
Output Impedance. 75 Ohms
Video Gain. 0dB Nominal
Gain Flatness 17MHz, 0.1dB min.
Bandwidth. 45MHz, -3dB min.

Outputs continued

Chrominance to Lum. Delay	<20ns
S / Ratio	>65dB
Differential Phase.	<0.6deg
Differential Gain	<0.4%
Short Time Distortion.	1 NRE
Crosstalk.	>70dB

Control Ports

IR In / Out ports	(2) 3.5mm jack
RS-232 In / Thru ports	(2) DB-9
VIA!Net In / Thru ports	(2) RJ-45
Power Requirement	120VAC, 20W 230VAC, 20W

Dimensions w/ Feet (1U w/o Feet)

. (in.)	17 W x 2-3/8 H x 14 D
. (mm)	432 W x 60 H x 356 D
Weight	10lbs / 4.5kg

Certifications: cTUVus, CE, C-tick, FCC part 15.

DSC3 DOOR STATION WITH HI-RES COLOR CAMERA



ELAN Door Stations are available in 5 different finishes. See pg. 27



DT22 DUAL AM/FM SIRIUS-READY TUNER



ORDER NO. DT22



The DT22 is a Sirius-ready, dual AM/FM tuner that lets your clients enjoy independent radio station listening in different rooms throughout the house.

Built in to the DT22 are two high-quality AM / FM tuners. Additionally, the DT22 features inputs for the quick and easy connection of two Sirius Satellite Radio Modules.

Dedicated outputs for the AM / FM tuners plus two dedicated Sirius outputs means that your clients can listen to up to four different streams of radio throughout their home from a single DT22. If they want even more, two DT22s can be linked for up to eight independent audio outputs.

The DT22 has a front panel IR receiver and comes with a full function handheld remote. There are also rear panel control ports for IR, serial and Ethernet control. In an ELAN multi-room system, 2-way feedback, including station call letters, frequency, genre, song name and artist, can be viewed on any ELAN Touch Panel, Touch Screen, Olé Touchpad or TS2 Touchpad.* The DT22 also decodes and displays data from the Radio Broadcast Data System (RBDS) in the US, enhancing the user experience even further.

Setup of the DT22 is easy and intuitive through front panel buttons and a graphical LCD. Installers are guided through the setup process for everything, including Network and Ethernet settings. There's even a diagnostics screen that provides AM/FM signal strength and Sirius signal detection status.

Users can easily program their own favorite station presets as they, too, are guided through this process for each tuner.

*Displayable data varies depending on source, i.e. standard AM/FM, RBDS, or Sirius radio.

FEATURES

- Built-in dual AM / FM tuners
- Sirius-ready for two plug-in modules
- Four sets of independent outputs for multi-room listening
- IR-, Ethernet- & Serial-controllable
- View radio station & "Now Playing" information on ELAN user interfaces
- Easy setup & diagnostics w / front panel buttons & graphical LCD
- Displays all RBDS data
- Preset or direct numeric access
- 396 presets per tuner
- IR remote control (incl.)
- Link 2 DT22s to provide up to 8 tuners (4 AM / FM, 4 Sirius)
- Sirius Parental Control menu
- ELAN SmartSource with built-in RS-232 serial driver

SPECIFICATIONS

Control Ports

IR In / Out	(2) 3.5mm jacks
VIA!Net In / Out	(2) RJ-45
RS-232	(1) Female DB9 (DCE)

Audio: FM

Tuning Frequencies	76 ~ 108MHz
Frequency Response	300Hz to 15kHz (+/-3dB)
SNR	63dB (Mono) / 58dB (Stereo)

Audio: AM

Tuning Frequencies . . . . .	.520 ~ 1710kHz
SNR	56dB

Audio: SIRIUS

Frequency Response20Hz to 20kHz (+/-0.5dB)
SNR	80dB
THD	0.01%

Ethernet

Ethernet	(1) RJ-45
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Sirius Module Ports

Sirius Module Ports	(2) 8 pin DIN
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Analog Audio Outputs

Analog Audio Outputs	(4 pr.) RCA Stereo
--------------------------------	--------------------

(1 pr. per AM / FM / 1 pr. Per Sirius module)

Digital Audio Output

Digital Audio Output	(2) Optical TOSLink
--------------------------------	---------------------

(1) per AM / FM tuner

Antenna Inputs

Antenna Inputs	(1) Coax FM Antenna Input
--------------------------	---------------------------

(1) AM Antenna Input – Push Terminals

Power requirements	120VAC, 35W
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Dimensions	(in.) 17 W x 3-1/2 H x 14 D
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Dimensions	(mm) 432 W x 89 H x 356 D
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Weight	13.6 lbs/6 kg
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Certifications: cTUVus, FCC Part15



Controllers & Sources

DT22-240 DUAL AM/FM TUNER



ORDER NO. DT22-240



(FOR USE IN COUNTRIES WITH 240V) A dual AM/FM tuner that lets you enjoy independent radio station listening in different rooms throughout the house. This tuner is designed for countries using 240V and comes preset for the Euro/

Asia tuning region so that you're ready to rock (or jazz, or classical) right from the start. The DT22-240 is a dual AM/FM tuner that lets your clients enjoy independent radio station listening in different rooms throughout the house.

Built in to the DT22-240 are two high-quality AM / FM tuners. Dedicated outputs for the AM / FM tuners means that your clients can listen to up to two different streams of radio throughout their home from a single DT22-240. If they want even more, two DT22-240s can be linked for up to four independent audio outputs.

The DT22-240 has a front panel IR receiver and comes with a full function handheld remote. There are also rear panel control ports for IR, serial and Ethernet control. In an ELAN multi-room system, 2-way feedback, including station call letters, frequency, genre, song name and artist, can be viewed on any ELAN Touch Panel, Touch Screen, Olé Touchpad or TS2 Touchpad.* The DT22-240 also decodes and displays data from the RDS in the EU, enhancing the user experience even further.

Setup of the DT22-240 is easy and intuitive through front panel buttons and a graphical LCD. Installers are guided through the setup process for everything, including Network and Ethernet settings.



There's even a diagnostics screen that provides AM/FM signal strength.

Users can easily program their own favorite station presets as they, too, are guided through this process for each tuner.

*Displayable data varies depending on source, i.e. standard AM/FM or RDS.

FEATURES

- Built-in dual AM / FM tuners
- Four sets of independent outputs for multi-room listening
- IR-, Ethernet- & Serial-controllable
- View radio station & "Now Playing" information on ELAN user interfaces
- Easy setup & diagnostics w / front panel buttons & graphical LCD
- Displays all RBDS (US) and RDS (EU) data
- Preset or direct numeric access
- 396 presets per tuner
- IR remote control (incl.)
- Link 2 DT22s to provide up to 4 tuners (4 AM / FM)
- ELAN SmartSource with built-in RS-232 serial driver

SPECIFICATIONS

Control Ports

IR In / Out (2) 3.5mm jacks
VIA!Net In / Out (2) RJ-45
RS-232 (1) Female DB9 (DCE)

Audio: FM

Tuning Frequencies 76 ~ 108MHz
Frequency Response 300Hz to 15kHz (+0/-3dB)
SNR 63dB (Mono) / 58dB (Stereo)

Audio: AM

Tuning Frequencies 520 ~ 1710kHz
SNR 56dB
Ethernet (1) RJ-45
Analog Audio Outputs (2 pr.) RCA Stereo
 (1 pr. per AM / FM)
Digital Audio Output (2) Optical TOSLink
 (1) per AM / FM tuner
Antenna Inputs (1) Coax FM Antenna Input
 (1) AM Antenna Input – Push Terminals

Power requirements 240VAC, 35W
Dimensions (in.) 17 W x 3-1/2 H x 14 D
 (mm) 432 W x 89 H x 356 D
Weight 13.6 lbs/6 kg
Certifications: CE, C-tick



Rock Solid.

Flexibility is a performance specification. Having great sound and reliable operation are minimum requirements in today's marketplace. Flexibility is unique. Our digital amplifiers are perfect for the high end multi-room installation where you must be able to adjust the input levels independently and must have features such as: *minimum turn-on level, absolute maximum volume, and automatic volume reduction*. On the analog side we have high current amplifiers capable of driving multiple pairs of speakers without impedance matching and as well as cost effective multi-channel solutions. ELAN – your application-specific amplifier solution company



Amplifiers

D16 16-CHANNEL DIGITAL POWER AMPLIFIER



ORDER NO. D16



Also Available in 240VAC Version (Order No. D16-240)

Sure, the D16 amplifier features up to 75 watts of clean, cool, and confident Texas Instruments digital power into each of its 16 channels – but what really sets it apart are the host of features that allow it to be used in installations where lesser amplifiers fall flat.

A full-blown audio switcher, preamp and amplifier all-in-one, the D16 is the Swiss army knife of whole-home entertainment systems and the answer for high quality, whole-house stereo music distribution in up to eight rooms. Independent IR volume control, versatile input/output assignment and bussing over VIA!Net or the front panel make it perfectly suited for simple Zone 2 applications off an A/V receiver or as part of a complete ELAN system.

"Green-friendly," low-power standby mode provides nearly instant turn-on for predictable operation, plus you can tailor the sound to your liking thanks to D2Audio® PWM processing. Your imagination and the D16 – now that's one powerful combination.

FEATURES

- 16 channels of digital amplification
- True power ratings of 50WPC @ 8 Ohms & 75WPC @ 4 Ohms (all channels driven)
- A & B Bus inputs & outputs
- Two optical digital inputs
- 8 paired trigger inputs + "All On" trigger input & trigger loop output
- Only 3 rack spaces high
- Rack-mount ears included
- The ideal companion amplifier to the S128P Multi-Room A / V Controller

SPECIFICATIONS

Power Output (RMS) per Channel	.75W @ 4 Ohms 50W @ 8 Ohms
Frequency Response	20Hz to 20kHz +/- 0.3dB into 8 Ohms

Full Power Bandwidth	10Hz to 25kHz
Signal-To-Noise	>102dB (A-weighted)
Channel Separation	>70dB (channel to channel @ 1 kHz)
Total Harmonic Distortion	<.04%
Intermodulation Distortion	<0.1%
Input Impedance	49k Ohms
Trigger Inputs	5 to 24 Volts AC/DC
Trigger Loop Output	+12VDC @ 0.1A
AC Power Requirements	120VAC, 1440W or 240VAC, 1449W
Standby Power	.20W
Current Draw	12A @ 120VAC 6A @ 240VAC

Dimensions (w/o feet)

(in.)	17 W x 5-7/8 H x 17 D
(mm)	432 W x 142 H x 432 D
Weight	47 lbs / 22 kg
Certifications:	ETL® listed, CE, C-tick

ACCESSORIES ➤ P. 40

Precision Plates



D12 12-CHANNEL DIGITAL POWER AMPLIFIER

ORDER NO. D12



Also Available in 240VAC Version (Order No. D12-240)

Designed, built and rigorously tested for outstanding reliability and sound, the D12 achieves a high level of dependability and performance in multi-channel amplification.

The D12 uses low heat/high efficiency Class D digital technology with 8x oversampling and 48-bit signal processing to deliver the cleanest audio and most efficient amplification available today. Each of the amplifier's 12 channels have a true power rating of 75W into 8 Ohms and 100W into 4 Ohms – with all channels driven. The D12 also incorporates new, one-of-a-kind technologies that make its setup, flexibility and performance truly unique.

Configuring the D12 is done through its front panel buttons and display. From there you can set input levels for each channel individually or for all channels at once. You can also configure input selections for direct stereo, mono mix-down, and A/B bussing in both stereo and mono.

Program features such as max volume output, min/max turn-on levels for each channel, independent triggers that allow you to turn on and off any mix of amp channels, link/un-link channel pairs and more. You can even create up to three "scenes" that, with the touch of a button, can raise or lower specific amp channels.

What's more, the D12's blue graphical LCD allows you to view all your settings and provides important diagnostic information such as faults, thermal warnings and impedance load per channel.

All these features, and many more, have been incorporated into a chassis design that exceeds all standard quality assurance testing – and then some – making the D12 the most reliable amplifier ever built for multi-room audio applications.

FEATURES

- Designed, built and tested for outstanding reliability and sound
- Class D Digital Technology w / 8X oversampling & 48-bit signal processing
- True power ratings of 75WPC @ 8 Ohms & 100WPC @ 4 Ohms
- Low heat / high efficiency
- Patent-pending ACE™ Automatic Clip Eliminator
- Fault, thermal and impedance load monitoring for each channel
- Blue graphical LCD for setup, monitoring & diagnostics
- Intuitive front panel button setup
- "Lockout" feature fixes settings

- Programmable "scenes"
- Multiple input and Bus options
- Buffered loop outputs for each channel
- USB port allows for easy download from ELAN configuration software
- VIA!Net jack for control & monitoring
- Rack-mount ears (incl.)

SPECIFICATIONS

Power Output (RMS) per channel	100W @ 4 Ohms, 75W @ 8 Ohms (all channels driven)
Frequency Response	20Hz to 20kHz, -3dB into 8 Ohms
Full Power Bandwidth	10Hz to 25kHz
Signal-To-Noise	> 102dB (A-weighted)
Channel Separation	>-70dB (channel to channel @ 1kHz)
Total Harmonic Distortion	< .04%
Intermodulation Distortion	< 0.1%
Input Impedance	.49k Ohms
Remote Trigger Inputs	5 to 24 Volts AC / DC
Trigger Loop Output	+12VDC @ 10mA
AC Power Requirement	20VAC, 1440W or 240VAC, 1440W Standby @ 20W
Current Draw	12A @ 120VAC / 6A @ 240VAC

Dimensions w/ Feet (3U w/o Feet)

.....	(in.) 17 W x 5-7/8 H x 17 D (mm) 432 W x 149 H x 432 D
Weight	.47lbs. / 21.32kg

Certifications: cTUVus, CE, IC, C-Tick, CB Scheme, FCC



ACCESSORIES

P. 40

Precision Plates

D660 6-CHANNEL DIGITAL POWER AMPLIFIER 

ORDER NO. D660



Also Available in 19 in. Rack-Mount Version (Order No. D661) and 240VAC Versions (Order No. D660-240/D661-240)

Standing only 1-3/4 in. high, the D660 is designed to fit in a single rack-space yet has more than enough power for any multi-room audio application.

Six Class T digital channels rated at 75 Watts @ 4 Ohms or 60 Watts @ 8 Ohms produce clear, rich sound from any audio source.

Six buffered-loop outputs make it easy to create additional stereo and mono listening areas, and a Bus Mode switch allows instantly linking all the channels together.

FEATURES

- 6 Channels of digital amplification
- 6 x 75 WPC RMS into 4 Ohms 6 x 60 WPC RMS into 8 Ohms
- Only 1 rack-space high
- Bus mode switch
- Trigger input/output
- Gold-plated 5-way speaker binding posts

SPECIFICATIONS

Power Output (RMS) per Channel	75W @ 4 Ohms 60W @ 8 Ohms
Frequency Response	20Hz to 20kHz +/-0.3dB into 8 Ohms
Full Power Bandwidth	10Hz to 50kHz
Signal to Noise	>102dB (A-weighted)
Channel Separation	>70dB (channel to channel @ 1kHz)
Total Harmonic Distortion	<.04%
Intermodulation Distortion.	< 0.1%
Voltage Gain (Av)	Continuously Variable from 0 - 24
Slew Rate	>20V/microsecond
Input Impedance	49k Ohms
Input/Loop Outputs	Gold-plated RCA Phono
Speaker Outputs	5-way binding posts
AC Power Requirements.	120VAC, 600W or 240VAC, 600W
Current Draw . . . . .	.5A @ 120VAC 2.5A @ 240VAC
Remote Trigger Inputs.	5 to 24 Volts AC/DC
Trigger Loop Output	+12VDC @ 0.1A
Dimensions	
D660 (w/feet)	(in.) 17 W x 2-1/4 H x 15 D (mm) 432 W x 58 H x 380 D
D661	(in.) 19 W x 1-3/4 H x 15 D (mm) 483 W x 45 H x 380 D
Weight	22 lbs / 10 kg
Certifications:	ETL® listed, CE, C-tick

**ACCESSORIES ➤ P. 40**

Precision Plates

A12 12-CHANNEL POWER AMPLIFIER

ORDER NO. A12



Also Available in 240VAC Version (Order No. A12-240)

The A12 Power Amplifier is designed to provide a reliable, affordable and feature-rich solution for multi-room audio systems requiring up to twelve channels of amplification. Building on ELAN's proven analog technology, the A12 adds advanced features like audio sensing, stereo/mono bussing and trigger inputs/outputs to make it the premier amplifier in its price range.

Using easy-to-configure dip switches a bus input can be sent to any A12 output without the use of additional patch cables. Bus loop outputs allow for easy connection to additional amplifiers, A/V receivers, etc.

Six +12VDC trigger inputs allow each pair of channels to be activated independently. The A12's audio sense circuit mutes or un-mutes channels based upon audio signal detection.

Each channel also features an audio loop output, making for the easy creation of stereo and mono sub-zones or for routing audio to additional amplifiers or audio processors. Individual channel level adjustments allow fine-tuning of each channel. Removable, locking speaker terminals make quick and secure speaker connections.

FEATURES

- 12 x 40 WPC @ 8 Ohms
- Stereo / mono bus
- 6 paired remote trigger inputs
- System trigger in / out
- Audio loop outputs
- Individual channel level adjustments
- Audio sense
- Removable locking speaker terminals
- 2 rack-spaces high
- 3 rack-spaces high w / optional rack mount kit (RMK3)

SPECIFICATIONS

Power Output (RMS) per Channel	30W @ 8 Ohms
Frequency Response	20Hz to 20kHz, +/-1dB into 8 Ohms
Full Power Bandwidth . . . . .	.5Hz to 55kHz, -3dB into 8 Ohms
Signal-To-Noise	>95dB (A-weighted)
Channel Separation	>70dB (channel to channel @1kHz)
THD	<.01% @ 1kHz, <0.06% @ 10kHz
Intermodulation Distortion	<0.1%
Voltage Gain (Av)	Continuously variable from 0 - 20
Slew Rate	>9 V / microsecond
Input Impedance . . . . .	.47k Ohms
Input Sensitivity	0.707VRMS
Trigger Inputs	5 to 24VDC
Trigger Loop Output	+12VDC @ 0.1A
AC Power Requirements	120VAC, 440W or 240VAC, 440W
Current Draw . . . . .	.3.7A @ 120VAC 1.85A @ 240VAC

Dimensions w/ Feet (2U w/o Feet)

..... (in.) 17 W x 4-1/8 H x 12-3/4 D
..... (mm) 432 W x 105 H x 324 D

Weight 20 lbs / 9.07 kg

Certifications: ETL® listed, CE

ACCESSORIES

P. 40

Precision Plates and Rack Mount Kit



A6 6-CHANNEL POWER AMPLIFIER

ORDER NO. A6



Designed specifically for the Custom Installer, the A6 Power Amplifier is the cornerstone of any high-fidelity system. The A6 provides six channels at 30 WPC or three channels at 60 WPC in a 1-3/4 inch single rack-space plus additional features not found on an amplifier (of any size) on the market.

Six front panel gain pots, signal presence and clip indicators make setup a snap! A convenient Bus Mode switch allows one stereo input to be routed to three pairs of amplified outputs without the need for additional patch cables. Independent bridge mode buttons allow mixing of bridged and un-bridged channels. Buffered line level outputs can be Y-corded for mono signal applications.

The built-in IR connecting block can power up to four IR receivers and emitters – great for standalone IR control applications! The remote trigger input mutes the amplifier when the preamp is turned off.

The ultra-high-efficiency toroidal transformer and 40,000uF bulk storage capacitance ensures that peak current demands are always met.

FEATURES

- 30 WPC RMS into 8 Ohms 84 WPC RMS into 8 Ohms, bridged
- Front panel gain pots, signal presence, clip & IR pass-through LED indicators
- Bus Mode switch
- Buffered line level outputs
- IR pass-through connecting block
- Remote trigger IN / OUT
- Only 1 rack-space high
- Rack ears included

SPECIFICATIONS

Frequency Response	20Hz to 20kHz -.25dB
Full Power Bandwidth	10Hz to 30kHz
Signal to Noise	>110dB (A-weighted)
Channel Separation	>70dB @ 1kHz
THD	< 0.03%
Intermodulation Distortion	< -90dB
Voltage Gain (Av)	0 to 28, adjustable
Input Impedance	20k Ohms
Remote Trigger Input	5-24V AC/DC
Trigger Loop Output	+12VDC @ 0.1A
AC Power Requirements	120VAC, 440W
Current Draw	3.7A @ 120VAC
Dimensions	
	(in.) 17 W x 2-1/4 H x 11 D
	(mm) 432 W x 58 H x 280 D
Weight	16 lbs / 7.2 kg
Certifications:	ETL® listed, CE

ACCESSORIES → P. 40

Precision Plates



A2 2-CHANNEL POWER AMPLIFIER

ORDER NO. A2



Whether specifying the A2 in a home theater application or in a distributed audio system, this single rack-height amp provides enough power to handle the most inefficient freestanding speakers or a whole house full of in-walls.

The A2 amplifier will deliver 150 watts per channel into 2-Ohm loads. This high-current, low-impedance design eliminates the need for speaker selector boxes or load protection devices when driving up to three pair of 8-Ohm speakers. The ultra-high-efficiency toroidal transformer and 40,000uF bulk storage capacitance ensures that peak current demands are always met. This translates into exceptionally tight bass response and improved dynamic headroom.

Buffered loop outputs allow routing of the stereo inputs to an additional power amplifier or surround sound processor without signal loss or degradation.

Three pairs of gold-plated, five-way speaker binding posts make it easy to connect multiple speakers. The remote trigger input mutes the amplifier when the preamp is turned off. Gain pots for each channel are accessible via the front panel.

FEATURES

- 150 WPC RMS into 2 Ohms
- 100 WPC RMS into 4 Ohms
- 60 WPC RMS into 8 Ohms
- Buffered line level outputs
- Remote trigger IN / OUT
- Only 1 rack-space high
- Rack ear included

SPECIFICATIONS

Frequency Response	20Hz to 20kHz -.5dB
Full Power Bandwidth	5Hz to 30kHz
Signal to Noise	>110dB (A-weighted)
Channel Separation	>70dB @ 1kHz
THD	< 0.03%
Intermodulation Distortion	< -90dB
Voltage Gain (Av)	0 to 28, front panel adjustable
Input Impedance	33k Ohms
Remote Trigger Input	5-24V AC / DC
Trigger Loop Output	+12VDC @ 0.1A
AC Power Requirements	120VAC, 440W
Current Draw	3.7A @ 120VAC
Dimensions	

(in.) 17 W x 2-1/4 H x 11 D
(mm) 432 W x 58 H x 280 D

Weight 16 lbs/7.2 kg
Certifications: ETL® listed, CE

ACCESSORIES ➤ P. 40

Precision Plates



ACCESSORIES

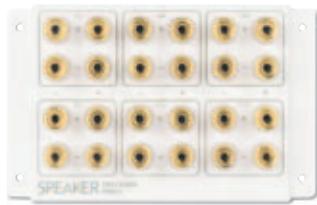
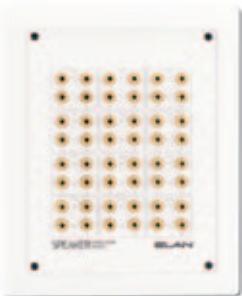
RMK3 RACK-MOUNT KIT For A12 Power Amplifier



Dimensions.(in.) 19 W x 5-1/4 (3U) H
(mm) 483 W x 134 (3U) H

A 19 in. rack-mount solution for the A12,
providing an extra 1/2 rack space on the top &
bottom for optimum air flow & heat dispersion.
Measures 3 rack spaces when installed.

PSP12 & PSP6 SPEAKER PRECISION PANELS For ALL Amplifiers



PSP12 & PSP6 Speaker Precision Panels provide perfect trim-out
solutions for ELAN D Series Digital Power Amplifiers. See pg. 67



Shed Some Light.

Lighting control is a fundamental system in any integrated home. No system is used as often or relied upon more than lighting. ELAN Lighting by Pulseworx utilizes a super reliable, state-of-the-art powerline carrier system that eliminates all of the radio frequency problems associated with Zigbee and Z-Wave. The ELAN Lighting System is simple to install and configure, designed to be installed in standalone applications as well as integrated with g!, expands easily, and is cost effective.



Lighting Control

MULTI-BUTTON CONTROLLERS



6-BUTTON INWALL CONTROLLER ORDER NO. KPCW6 FOLLOWED BY COLOR CODE

Use the keypad controllers to control a single light or multiple lights with one button. Program each button to trigger a different scene, control specific lights or your whole house. Lights will ramp to a desired brightness level at a rate from .8 seconds to 1 hour. Certain lights can dim slowly while others turn off instantly, all controlled with a press of a button. Each button is fully customizable to operate in one of 16 specific modes and will initiate commands when each pushbutton is tapped, double-tapped, held or released. Create the perfect ambiance.

8-BUTTON INWALL CONTROLLER ORDER NO. KPCW8 FOLLOWED BY COLOR CODE

FEATURES

- Pre-programmed to trigger 6 or 8 preset scenes with inviting light levels to create moods
- LED Presets individually configure which LED indicators will light up or turn off in response to as many as 16 different scenes.
- No lag time – just tap and the command is sent instantly!
- To temporarily lock the keypad to keep children or party guests from using the keypad – press and hold the middle four buttons to enable/disable lockout

6-BUTTON DESKTOP CONTROLLER ORDER NO. KPDD6B

- Adjustable LED brightness and backlighting permits nighttime viewing and status
- 6 button models accept IR commands which reproduces the buttons for true remote control from across the room
- Desktop version is simply plugged into your electrical outlet
- Available in 7 colors: White, Almond, Light Almond, Ivory, Gray, Brown, and Black (desktop model in Black only)

MULTI-BUTTON DIMMER / CONTROLLERS



6-BUTTON INWALL DIMMER / CONTROLLER ORDER NO. KPLD6 FOLLOWED BY COLOR CODE

The Keypad Load Dimmer is an all-in-one Keypad Controller and Light Dimmer in a single package giving you the functionality of a keypad and a 400W dimmer switch. Transmits and receives UPB® digital commands over the existing electrical wiring to remotely turn ON, OFF, and dim its own lighting load as well as trigger dramatic scenes throughout the home.

8-BUTTON INWALL DIMMER / CONTROLLER ORDER NO. KPLD8 FOLLOWED BY COLOR CODE

FEATURES

- Dual-purpose keypad/dimmer fits in a single gang location
- Allows a keypad to replace a light switch without losing the functionality of the light switch.
- The 400W rating can be configured to act as a dimmer or switch.
- Will control single lights, trigger dramatic scenes and/or send messages to a central controller
- Choose from 16 function modes for each button

CUSTOM KEYCAPS

ORDER NO. CEM6
For KPCW6, KPDD6, KPLD6

ORDER NO. CEM8
For KPCW8, KPLD8

DIMMERS & SWITCHES

STANDARD DIMMERS



USE ORDER NO. PLUS COLOR CODE

STANDARD DIMMER, 600W ORDER NO. WS1D6

STANDARD DIMMER, 1000W ORDER NO. WS1D10

STANDARD DIMMER, 1500W ORDER NO. WS1D15

STANDARD DIMMER, 2400W ORDER NO. WS1D24

ELECTRONIC LV DIMMER, 300W ORDER NO. WS1E3

ELECTRONIC LV DIMMER, 500W ORDER NO. WS1E5

These dimmers replace existing switches or dimmers providing controlled lighting without new wires. The dimmers are compatible with incandescent, dimmable CFL, inductive and magnetic low voltage loads. Configured as a switch this device will switch standard fluorescent, electronic low voltage and relay loads. Available in wattages up to 2400 watts, our dimmers are one of the very few to dim over 1000 watts without an external interface. Each device can be a member of 16 scenes and act as a simple two button controller.

FEATURES

- Each unit can be a dimmer, a relay switch or a two-button transmitter depending on its programming.
- May be used for stand-alone scene lighting control, or with a controller
- Pre-programmed with 7 preset scenes
- Variable fade rates for rocker switch operation and all scenes can be set between instant-on and one hour

- Programmable on-level with 100 Dimming Steps for elegant scene membership and notification of status
- Auto off timer allows the unit to turn off after a pre-set time from 1 minute to 4 hours
- Multi-colored LED to show status of load
- May be used in three-way circuits just add an RWS Remote Wall Switch
- Electronic Low Voltage (ELV)dimmers are compatible with and required for ELV transformers
- Adjustable Receive Sensitivity to maximize communication reliability
- * **NOTE:** Available in 7 colors, except 1500W and 2400W models, which are available in ivory and white only.

LAMP & APPLIANCE MODULES



LAMP MODULE, 400W ORDER NO. LM14
APPLIANCE MODULE, 12A ORDER NO. AM112

The Lamp and Appliance Modules are perfect for remotely controlling one or more plug-in lamps and appliances. Simply plug the item to be controlled into the controlled outlet on the bottom of the module and then plug the module in the wall. A pass-through outlet allows plugging in other items that do not require remote control.

The LM14 Lamp Module is designed for controlling incandescent, fluorescent or magnetic low voltage loads, and provides as much as 400W of power to the lamp(s). The dimmer function can also be disabled, turning the outlets into a switch, allowing on/off commands to non-dimmable loads such as fans or radios. The AM112 Appliance Module will handle up to 12 Amps for ON/OFF control.

FEATURES

- Auto-off timer and transmit function allows the unit to turn off after a pre-set time from 1 minute to 4 hours from being turned on
- Switch trigger circuits allow the modules to turn on when the controlled device's on/off switch is opened and then closed and can update its status to other devices – great feature for reading lamps when you don't want to have to find a controller to turn the lamp on
- Transmission mode allows the modules to trigger scenes when they are manually turned on or upon the Auto-off time-out setting
- Pre-programmed with 7 preset scenes to create inviting moods and a flash feature for notification

FIXTURE MODULES



FIXTURE MODULE DIMMER ORDER NO. FMD24
FIXTURE RELAY MODULE, 20A ORDER NO. FMR120

The FMD24 2-Channel Fixture Module Dimmer is the ideal solution to controlling incandescent lights or fixtures that need to be individually controlled or are not currently wired to a dedicated wall switch location.

The FMR120 ideal solution for fluorescent lights, or other non-dimming loads (such as motors or transformers), that need to be individually controlled but are not currently wired to a dedicated wall switch location.

FEATURES

- Wires into electrical box or fixture canopy
- Controllable by an ELAN lighting controller
- Allows automation of ceiling fan / light locations

INSTALLATION & SUPPORT DEVICES

LINE FILTERS



IN-LINE 1.8 AMP CHOKE FILTER ORDER NO. ILC
POWERLINE 3.8 AMP FILTER ORDER NO. PLF5
POWERLINE 15 AMP FILTER ORDER NO. PLF15

These items are designed to reduce/eliminate electrical noise or the attenuating effects of devices that could interfere with our communication signals. A few different types of ballasts, power supplies, power conditioners and motors can place unwanted noise on the powerline; these chokes and filters ensure reliable performance of your system. The ILC In-Line Choke is used on wire-in devices rated for 120 VAC devices that draw up to 1.8 Amps. The Plug-in 120 VAC PLF5 (3.8 A) and PLF15 (15A) filters plug in between the noisy offender and isolates them from the electrical wiring. The PLF15 has two outlets for plugging in multiple devices or power strips.

FEATURES

- Ensures reliable communication
- Blocks low frequency noise above 4 kHz
- Isolates attenuation effect of highly capacitive devices

COUPLERS & REPEATERS



COUPLERS

2-WIRE 120/240VAC ORDER NO. PPC1
PLUG-IN 3 PRONG NEMA 10-30P ORDER NO. PPC3
PLUG-IN 4 PRONG NEMA 14-30P ORDER NO. PPC4

REPEATERS

SPLIT PHASE REPEATER ORDER NO. SPR1
THREE PHASE REPEATER ORDER NO. TPR120

Phase couplers are designed to enhance the communication reliability of the system.

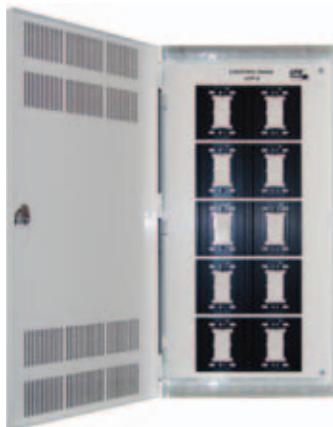
They provide a path for a signal generated on one phase, in a typical split-phase (single-phase) 240 VAC residential system to cross over to the other phase of the powerline. A PPC1 is recommended in each breaker panel in a home. If a 220V 3- or 4-prong receptacle is available use the PPC3 or PPC4.

In larger systems (homes over 5000 sq. ft) that have more than 3 electrical panels signal attenuation is a culprit that may reduce communication strength. The main purpose of the SPR1 is to increase the powerline communication reliability by taking the communica-

tions transmitted on one phase (leg) of the electrical system and repeating them on to the other phase (leg) at full strength.

For environments such as restaurants, apartment complexes, office buildings or across multiple electrical phases, the TPR120 is designed to deliver all the benefits on three-phase 120/208VAC Delta-Wye 60Hz power.

LIGHTING CONTROL PANEL



LIGHTING CONTROL PANEL ORDER NO. LCPU

The Lighting Control Panel provides ample room to house up to ten WS1D24, fifteen WS1D15/ WS1D10, or twenty WS1D6 dimmers controlling a maximum of 20 individual circuits and delivering 24,000W or 18,000VA of power. A total of thirty three (½ X ¾

combo type) knockouts are provided on the top, bottom and back of the enclosure for simplified wiring.

The LCP is designed to be flush-mounted between two 16-inch center-to-center studs or surface-mounted on any flat surface. De-rating is not needed as all the heat generated by high-power lighting controls is properly dissipated.

FEATURES

- The cost to design, layout, construct, wire, and program a central-star system lighting system is greatly reduced
- Hinged Interior panel can swing out for easy access for wiring
- Door lock to prevent tampering
- 13 knockouts (½ x ¾ combo type) on both the top and the bottom of the unit and 20 knockouts on the rear, for simple wiring
- Advanced heat dissipation, de-rating is not needed

POWERLINE INTERFACE MODULES



ORDER NO. PIMR (FOR RS-232)
ORDER NO. PIMU (FOR USB)

The PIM plugs into any standard 120VAC electrical outlet. The PIMR is an RS-232 serial interface that connects to any available COM port via a DB9 serial cable (included). The PIMU is a USB serial interface that connects to any available USB port. Software drivers allow the PIMU to emulate a serial PIM by taking over an available COM port.



INSTALLATION & SUPPORT DEVICES continued

TIMED EVENT CONTROLLER



TIMED EVENT CONTROLLER ORDER NO. TEC

The Timed Event Controller is a high quality plug-in home automation controller capable of transmitting and receiving digital commands over the existing powerlines at preset times.

The TEC stores up to 20 individual timed events. Each event can be configured to occur, daily, during the work week, on weekends, on specific days of the week or on a specific day of the year. Event times can be specified as absolute times or relative to sunrise or sunset times (based on your geographic location). A Security Mode to randomly vary the event time each day within a user specified time window gives the home a lived in look.

FEATURES

- Stores up to 20 individual times events
- Security mode allows for random events
- Automatic Daylight Savings adjustment
- 10-year batteryback-up

INPUT CONTROL MODULE



INPUT CONTROL MODULE ORDER NO. ICM

The Input Control Module is a high quality plug-in home automation controller device designed to interface off-the-shelf low voltage or contact closure sensor devices. It provides two independent channels of general purpose isolated contact closure sensing inputs to activate single lights, trigger dramatic scenes, or send messages to a central controller.

FEATURES

- Quick and easy installation: simply plug the ICM into any standard wall outlet and wire the device to the sensor.
- Perfect for interfacing off-the-shelf motion sensors, light sensors, occupancy sensors, pressure mats, RF remote controls, etc

4-ZONE STARTER KIT



This great little package enables you to initially set up your lighting system and allow you to control 4 lighting zones in main areas in your home.

The keypads and wall switches are pre-programmed with 4 basic scenes. Spending less time on programming will allow you to start enjoying your ELAN Lighting system sooner. Changing the existing scenes are as simple as activating the scene, changing the lighting levels at the wall switches and tapping the scene button on the keypad five times. The Keypads can also receive IR commands to give you control from any learning remote.

KIT INCLUDES
(4) WS1D6W
(1) KPCW6W
(1) PIMR
(1) PPC1

4 -ZONE STARTER KIT ORDER NO. SPK4





Sounds Incredible.

ELAN has an architectural speaker for virtually every application.

From basic background or dual channel locations to high performance in-ceiling cinema speakers, we've got your needs covered.

Our new "MDU" speakers include a dampening enclosure to prevent sound from being transmitted from one room to another. Finally, don't forget about our high performance outdoor speakers when you need music on the patio or deck.



Speakers

ELIOS ARCHITECTURAL & CINEMA SPEAKERS

Elios Architectural Speakers

7" In-Ceiling w/ stationary woofers



Rough-In Bracket



7" In-Ceiling w/ pivoting woofers



7" In-Walls

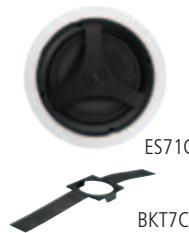


Elios Cinema Speakers

9" In-Ceiling w/ stationary baffles



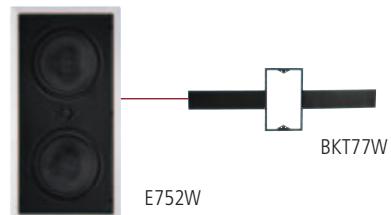
Elios MDU Speakers



9" In-Ceiling w/ rotating baffles



Dual 7" In-Wall



Dual 5.25" In-Wall



BKT55W

6.5" Dipole



ELIOS MDU (Multiple Dwelling Unit) SPEAKERS

INTRODUCING THE MDU SPEAKERS

In response to Electronic Systems Contractors from around the world these new ELIOS models were engineered to provide performance, sonic focus and long-term dependability in the shallow and challenging spaces of modern MDU construction techniques. The ES71C is an ultra shallow in-ceiling speaker yet it delivers impressive bass response. The ES412 was developed to provide a viable on-wall speaker option where little or no mounting depth is available. The ES412 is a sleek, smooth looking design featuring a unique corner mounting bracket or a direct J-box mounting option and the ES412 only 2.95" (75mm) deep!

IN THE CEILING . . .

You would think that a ceiling speaker with only 2.56" (65mm) of depth would be, well, a bit "thin" sounding. The ELAN acoustical engineers tried many approaches to this shallow design mandate and finalized an almost perfect combination of diameter, cone curvature and suspension materials to achieve what many thought couldn't be done – a smooth sounding shallow depth ceiling



ing speaker. Additionally, the ES71C features a custom "Q" single-pole crossover, a 3/4" (19mm) pivoting tweeter, a winglet mounting system that accommodates up to 1.25" (32mm) ceiling material, 50 watt power rating and a powder coated steel back box that seals the speaker providing excellent sound isolation preventing sound migration to rooms above.

. . . AND ON THE WALL

When an on-wall speaker is your only best choice in a difficult installation environment you will find the New ES412 to be a surprising performer given the 2.95" (75mm) depth of the cabinet. With dual active 4.5" (114mm) woofers and a 1"(25mm) soft-dome pivoting tweeter the sonic performance is quite outstanding. The stylish, yet rigid, ABS plastic cabinet design makes the ES412 a perfect choice for on-wall L/C/R applications. The included corner mounting brackets give you the sonic advantages of corner loading the speakers for increased bass response and for pre-wiring ease, you can mount the speaker directly to a J-box. The ES412 is available in black or white finishes.



ES71C



ES412B

ES412W



E71C IN-CEILING

ES412W/ES412B ON-WALL

Woofers	7 in. mineral-filled Polypropylene	Dual 4.5 in. mica-filled co-polymer
Tweeter	3/4 in. Soft Dome, pivoting	1 in. Soft Dome, pivoting
Frequency Response	50Hz-20kHz	70Hz-20kHz
Sensitivity	87dB	88dB
Rated Power	50W RMS	50W RMS
Nominal Impedance	8 Ohms	8 Ohms
Crossover	Custom "Q" multi-pole	Custom "Q" multi-pole
Switches	N/A	N/A
Cutout Dims.	8-5/8 in. (220 mm)	N/A
Outside Frame Dims.	10 in. (253 mm)	10 in. (253 mm)
Mounting Depth	4-9/16 in. (65 mm)	10 W x 15-1/2 H x 2 15/16 in. 254mm x 394mm x 75mm
Rough-in Brackets	BKT55W	N/A

ELIOS ARCHITECTURAL SPEAKERS

IN-CEILING • IN-CEILING DUAL VOICE COIL • IN-WALL

Introducing the Elios line of Architectural Speakers – ten in-wall and in-ceiling speaker models designed to meet the exacting needs of Homeowner and Custom Installer alike.

ARCHITECTURAL CEILING SPEAKERS

Elios Architectural Ceiling Speakers feature a 2-way design that optimizes the use of custom 7-inch woofers and 1-inch pivoting tweeters.

1-inch tweeters have greater power handling. This is very important in 2-way speaker systems as we can confidently lower the crossover point, allowing the tweeters to blend better with the large 7-inch woofer. This makes for a more

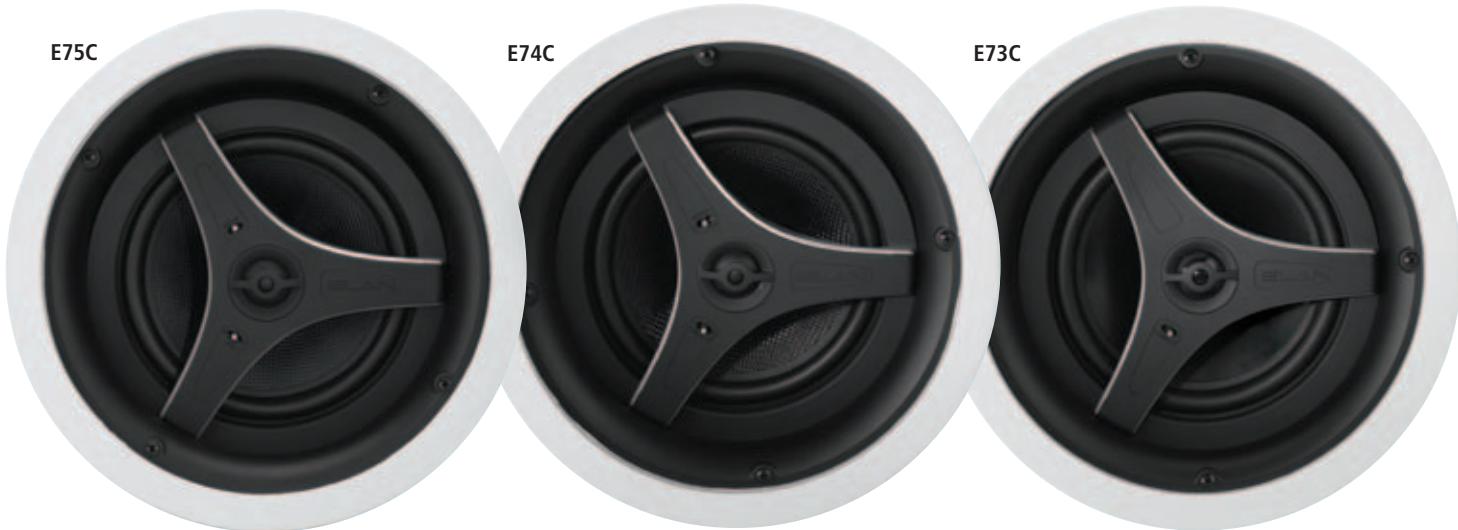
natural sound through the critical vocal range, while leaving the detail of the high frequencies and the punchy bottom end in tact.

The Elios line features six 2-way Architectural Ceiling Speakers that provide you and your clients with the quality sound, uncompromising construction and flexible price points needed for today's multi-room audio applications.

Elios E75C / E74C / E73C

Designed for critical, frequently-used listening areas, these three in-ceiling models offer exceptional bass, beautiful vocal range response and some of the most accurate, natural-sounding highs you'll ever hear.

What's more, the E75C, E74C & E73C deliver stereo imaging rivaling that of perfectly positioned cabinet speakers by placing both the tweeter and the woofer in a pivoting baffle design that enables you to direct the entire frequency spectrum toward the prime listening area.



E75C

E74C

E73C

	E75C	E74C	E73C
Woofers	7 in. Kevlar, pivoting	7 in. fiberglass, pivoting	7 in. Mica-filled injection cone, pivoting
Tweeter	1 in. Titanium / Aluminum nano-coated Teteron dome, pivoting	1 in. Titanium / Aluminum nano-coated Teteron dome, pivoting	1 in. Teteron Dome, pivoting
Frequency Response	45Hz-20kHz	45Hz-20kHz	48Hz-20kHz
Sensitivity	88.5dB	88dB	87.5dB
Rated Power	65W RMS	65W RMS	60W RMS
Nominal Impedance	8 Ohms	8 Ohms	8 Ohms
Crossover	Enhanced Custom "Q" multi-pole	Enhanced Custom "Q" multi-pole	Custom "Q" multi-pole
Switches	Bass & EQ	Bass & EQ	EQ
Cutout Dims.	9-3/4 in. (246.5 mm)	9-3/4 in. (246.5 mm)	9-3/4 in. (246.5 mm)
Outside Frame Dims.	11 in. (279 mm)	11 in. (279 mm)	11 in. (279 mm)
Depth	5-7/8 (148mm)	5-7/8 (148mm)	5-7/8 (148mm)
Rough-in Brackets	BKT7PC	BKT7PC	BKT7PC

ELIOS ARCHITECTURAL SPEAKERS continued

---Elios E72C / E71C / E70C

For rooms where the finest sound is still a prerequisite but the listening area is more fluid (i.e. the kitchen or rec room), Elios in-ceiling models E72C, E71C and E70C feature a stationary woofer baffle and a pivoting tweeter that allows high-frequencies to be directed into the listening area.

Combined with all of Elios' unique design innovations that make installation easy and trouble-free every time, the result is three beautiful-sounding, easy-to-install ceiling speakers that shine in any application and fit perfectly into any budget.



E72C

E71C

E70C

Woofers	7 in. Mica-filled injection cone	7 in. mineral-filled Polypropylene	7 in. mineral-filled Polypropylene
Tweeter	1 in. Silk Dome, pivoting	1 in. Soft Dome, pivoting	3/4 in. Soft Dome, pivoting
Frequency Response	50Hz-20kHz	50Hz-20kHz	50Hz-20kHz
Sensitivity	87dB	87dB	87dB
Rated Power	55W RMS	50W RMS	50W RMS
Nominal Impedance	8 Ohms	8 Ohms	8 Ohms
Crossover	Custom "Q" multi-pole	Custom "Q" multi-pole	Custom "Q" single pole
Switches	High Freq.	N/A	N/A
Cutout Dims.	8-5/8 in. (220 mm)	8-5/8 in. (220 mm)	8-5/8 in. (220 mm)
Outside Frame Dims.	10 in. (253 mm)	10 in. (253 mm)	10 in. (253 mm)
Depth	4-3/8 in. (111 mm)	4-1/4 in. (108 mm)	4-1/4 in. (108 mm)
Rough-in Brackets	BKT7C	BKT7C	BKT7C

ELIOS ARCHITECTURAL SPEAKERS continued

ARCHITECTURAL DUAL VOICE COIL CEILING SPEAKERS Elios E73D / E72D

Dual voice coil speakers are designed to provide stereo sound and imaging in areas where only one speaker can be installed. Elios Dual Voice Coil Speakers are designed to provide THE BEST stereo sound and imaging possible from a single speaker.

Utilizing dual 3/4" tweeters to maximize high-end dispersion, 7-inch mica-filled injection cone woofers and a custom crossover network, both models provide impressive high/mid stereo imaging and exceptional bass. The E73D also features a pivoting "eyeball" mechanism that allows the sound to be directed into the listening area for even better imaging.

Just because space is at a premium doesn't mean you have to compromise on premium sound!



E73D

E72D

	E73D	E72D
Woofer	7 in. Mica-filled injection cone, pivoting	7 in. Mica-filled injection cone
Tweeter	(2) 3/4 in. Teteron Dome	(2) 3/4 in. Soft Dome
Frequency Response	48Hz-20kHz	50Hz-20kHz
Sensitivity	88dB	87dB
Rated Power	60W RMS	55W RMS
Nominal Impedance	8 Ohms	8 Ohms
Crossover	Custom "Q" multi-pole	Custom "Q" multi-pole
Switches	EQ	High Frequency
Cutout Dims.	9-3/4 in. (247 mm)	8-5/8 in. (220 mm)
Outside Frame Dims.	11 in. (279 mm)	10 in. (253 mm)
Depth	5-7/8 in. (148mm)	4-3/8 in. (111 mm)
Rough-in Brackets	BKT7PC	BKT7C

ELIOS ARCHITECTURAL SPEAKERS continued

ARCHITECTURAL IN-WALL SPEAKERS

Elios E72W / E71W

For applications where only in-wall speakers will do, Elios has two high-performance models with 7-inch woofers and pivoting 1-inch tweeters that deliver full, rich, accurate sound to even the largest of rooms.

Special care was taken on our in-wall models to minimize tweeter diffraction. This makes for a smoother high frequency response and a better sounding speaker.

Like the in-ceiling models, 1-inch tweeters in pivoting "eyeballs" are matched perfectly to blend with 7-inch woofers and custom crossover networks to provide warm, natural-sounding vocal reproduction, clear high end and deep bass.

E72W



E71W



E72W

Woofers	7 in. Mica-filled injection cone
Tweeter	1 in. Soft Dome, pivoting
Frequency Response	50Hz-20kHz
Sensitivity	87dB
Rated Power	55W RMS
Nominal Impedance	8 Ohms
Crossover	Custom "Q" multi-pole
Switches	High Frequency
Cutout Dims.	7-7/8 W x 13-1/2 H in. (201 W x 342 H mm)
Outside Frame Dims.	9-1/4 W x 14-3/4 H in. (234 W x 375 H mm)
Depth	3-7/8 in. (97 mm)
Rough-in Brackets	BKT7W

E71W

Woofers	7 in. mineral-filled Polypropylene
Tweeter	1 in. Soft Dome, pivoting
Frequency Response	50Hz-20kHz
Sensitivity	87dB
Rated Power	50W RMS
Nominal Impedance	8 Ohms
Crossover	Custom "Q" multi-pole
Switches	N/A
Cutout Dims.	7-7/8 W x 13-1/2 H in. (201 W x 342 H mm)
Outside Frame Dims.	9-1/4 W x 14-3/4 H in. (234 W x 375 H mm)
Depth	3-7/8 in. (97 mm)
Rough-in Brackets	BKT7W

ELIOS CINEMA SPEAKERS

PREMIUM IN-WALL & IN-CEILING SPEAKERS FOR THE HOME THEATER

Introducing the Elios line of Cinema Speakers – seven in-wall and in-ceiling speaker models specifically designed to reproduce the dynamic, high-end audio required for Home Theater environments.

CINEMA CEILING SPEAKERS

Elios Cinema Speakers take in-ceiling Home Theater sound reproduction to the next level.

All five models are of a 3-way design that features custom 9-inch woofers with larger magnets for increased output and tighter bottom end. The 2.5-inch mid-range and 3/4" tweeter are mounted on a bridge with a fixed 30° angle from the woofer's audio axis.

This not only allows you to point the mids and highs into the listening area for better imaging, but ensures that the midrange driver's lower frequencies are isolated from the upper frequencies of the woofer's spectrum, making for smooth and articulate vocal reproduction. Additionally, the tweeters pivot independently of the bridge, allowing for even more pin-point accuracy of upper frequencies.

Featuring five 3-way models, the Elios line of Cinema Ceiling Speakers deliver sound and imaging that defy their in-ceiling nature.

Designed for front stage, center stage, surround sound or any in-ceiling application where audio is taken very seriously, Elios Cinema Ceiling Speakers succeed on every level.

Elios E95C / E94C / E93C

Our three flagship models, the E95C, E94C and E93C take this concept a step further with a fully rotating baffle design that makes installation and high frequency steering incredibly simple and accurate.

Quite simply, this is in-ceiling sound at its very, very best.

ELAN's Flagship Model



E95C

E94C

E93C

System Type	3-way bridge design, 360° rotating baffle	3-way bridge design, 360° rotating baffle	3-way bridge design, 360° rotating baffle
Woofer	9 in. Kevlar	9 in. fiberglass	9 in. Mica-filled injection cone
Midrange	2.5 in. Kevlar	2.5 in. fiberglass	2.5 in. Mica-filled injection cone
Tweeter	3/4 in. Titanium / Aluminum nano-coated Teteron dome, pivoting	3/4 in. Titanium / Aluminum nano-coated Teteron dome, pivoting	3/4 in. Teteron dome, pivoting
Frequency Response	40Hz-20kHz	40Hz-20kHz	43Hz-20kHz
Sensitivity	88.5dB	88dB	87.5dB
Rated Power	90W RMS	90W RMS	85W RMS
Nominal Impedance	8 Ohms	8 Ohms	8 Ohms
Crossover	Custom "Q" multi-pole	Custom "Q" multi-pole	Custom "Q" multi-pole
Switches	Bass & EQ	Bass & EQ	EQ
Cutout Dims.	12-5/8 in. (320 mm)	12-5/8 in. (320 mm)	12-5/8 in. (320 mm)
Outside Frame Dims.	13-7/8 in. (353 mm)	13-7/8 in. (353 mm)	13-7/8 in. (353 mm)
Depth	6-1/2 in. (165 mm)	6-1/2 in. (165 mm)	6-1/2 in. (165 mm)
Rough-in Brackets	BKT9PC	BKT9PC	BKT9PC

ELIOS CINEMA SPEAKERS continued

Elios E92C / E91C

Home Theaters vary in magnitude and use. The requirements and expense of a surround sound system in the bedroom or playroom may not be the same as a home's main theater room.

Still, there's no need to sacrifice sound and imaging just because you're watching a movie in bed. The Elios E92C and E91C were designed to impress the ears and your clients' budget.



E92C



E91C

E92C

E91C

System Type	3-way bridge design, stationary baffle	3-way bridge design, stationary baffle
Woofer	9 in. Mica-filled injection cone	9 in. mineral-filled Polypropylene
Midrange	2.5 in. Mica-filled injection cone	2.5 in. mineral-filled Polypropylene
Tweeter	3/4 in. silk dome, pivoting	3/4 in. soft dome, pivoting
Frequency Response	45Hz-20kHz	45Hz-20kHz
Sensitivity	87dB	87dB
Rated Power	80W RMS	75W RMS
Nominal Impedance	8 Ohms	8 Ohms
Crossover	Custom "Q" multi-pole	Custom "Q" multi-pole
Switches	High Frequency	N/A
Cutout Dims.	10-7/8 in. (275 mm)	10-7/8 in. (275 mm)
Outside Frame Dims.	12-1/8 in. (308 mm)	12-1/8 in. (308 mm)
Depth	6-3/4 in. (171 mm)	6-3/4 in. (171 mm)
Rough-in Brackets	BKT9C	BKT9C

ELIOS CINEMA SPEAKERS continued



E752W

Elios E752W / E552W / E532W

Using a finely-tuned array of dual woofers, pivoting dome tweeters and custom "Q" multi-pole crossover networks, Elios Cinema In-Walls produce beautiful imaging and sonic excellence across the entire frequency spectrum.

The E752W and E552W both use dual woven Kevlar woofers and nano-coated Teteron dome pivoting tweeters to deliver incredible bottom-end punch and the cleanest, most natural-sounding high-end reproduction of any in-wall speaker you'll encounter.

E552W



E752W



E532W

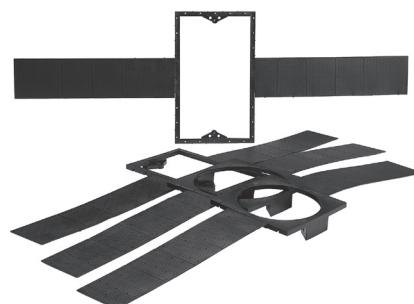
E552W and E532W feature ELAN's patent-pending 15° angled baffle, making them two of the most flexible Home Theaters speakers on the market. Ideal as a left or right stage speaker that can focus sound into the listening area for optimal stereo imaging, the angled baffle also lets you install it horizontally above or below the TV screen, ensuring that all center channel audio is pointed in the right direction – toward the listener.

As front stage left, right, center – or rear channel surround – all three Elios Cinema In-Wall models shine in any home theater application.

	E752W	E552W	E532W
System Type	Dual Woofer L / R	Dual Woofer L / C / R	Dual Woofer L / C / R
Woofer	7 in. woven Kevlar (2)	5.25 in. woven Kevlar (2)	5.25 in. mica-filled injection cone (2)
Tweeter	1 in. Titanium / Aluminum nano-coated Teteron dome, pivoting	1 in. Titanium / Aluminum nano-coated Teteron dome, pivoting	1 in. Teteron dome, pivoting
Frequency Response	40Hz-20kHz	50Hz-20kHz	50Hz-20kHz
Sensitivity	90dB	88dB	88dB
Rated Power	80W RMS	80W RMS	80W RMS
Nominal Impedance	6 Ohms	6 Ohms	6 Ohms
Crossover	Custom "Q" multi-pole	Custom "Q" multi-pole	Custom "Q" multi-pole
Switches	Bass & EQ	Bass & EQ	Bass & EQ
Cutout Dims.	9-1/2 W x 19 H in. (241 W x 483 H mm)	7-1/4 W x 14-3/8 H in. (184 W x 365 H mm)	7-1/4 W x 14-3/8 H in. (184 W x 365 H mm)
Outside Frame Dims.	10-3/4 W x 20-1/4 H in. (273 W x 514 H mm)	8-3/8 W x 15-7/16 H in. (231 W x 392 H mm)	8-3/8 W x 15-7/16 H in. (231 W x 392 H mm)
Depth	4 in. (102mm)	4 in. (102 mm)	4 in. (102 mm)
Rough-in Brackets	BKT77W	BKT55W	BKT55W

ELIOS ROUGH-IN SPEAKER BRACKETS

Bracket No. (sold in 6 pkgs)	BKT7C	BKT7PC	BKT9C	BKT9PC	BKT7W	BKT55W	BKT77W
For use with Speaker Order No.	E70C E71C E72C E72D ES71C	E73C E74C E75C E73D	E91C E92C	E93C E94C E95C	E71W E72W	E532W E552W	E752W



O SERIES OUTDOOR SPEAKERS



From the patio to the pool, on a boat or even inside on a bookshelf, ELAN O Series Outdoor Speakers deliver the sound your customers want, anywhere they want it. Their unique acoustic design delivers a deep, clean bass that beautifully complements the accurate highs and warm mids – making them ideal for all types of music at any volume. Their all-weather cabinet design makes them the ideal speaker for just about any environment.

All models come with custom "C" brackets that can be mounted horizontally or vertically onto walls or under eaves and swivel up to 180° so that you can direct the sound where you want it to go. The brackets, grills and cabinets are even paintable, allowing you to customize them to match your client's home.

O Series Outdoor Speakers are available in two grades in five different models.



OM650S 6.5" DUAL VOICE COIL STEREO OUTDOOR SPEAKER ORDER NO. OM650SW

A dual voice coil speaker designed to provide premium stereo audio to areas where only one speaker is desired or can be accommodated. Available in white.



OM650 6.5" 2-WAY OUTDOOR SPEAKERS ORDER NO. OM650W (White), OM650B (Black)

Incredible bass response. High power handling. Our best outdoor speaker system fills even large outdoor areas with the finest in sound. Available in white and black.



OM525 5.25" 2-WAY OUTDOOR SPEAKERS ORDER NO. OM525W

Premium, indoor-quality sound in a smaller package for smaller areas. Available in white.

OE SERIES OUTDOOR SPEAKERS

Ideal for smaller or less-used outdoor areas, the OE Series offers quality sound and premium construction at a great price. OE speakers use the same cabinet design as the OM Series – bass reflex box tuning that increases bass response while maintaining a small enclosure size. Composite polypropylene /carbon woofers and silk diaphragm tweeters deliver the smooth and accurate sound needed for outdoor listening environments.

OE650 6.5" 2-WAY OUTDOOR SPEAKERS

ORDER NO. OE650W

Big sound at a sizeable savings.
Available in white.



OE525 5.25" 2-WAY OUTDOOR SPEAKERS

ORDER NO. OE525B (Black), OE525W (White)

Ideal for smaller areas where sound quality and price make the difference. Available in white & black.



SPECIFICATIONS

OM650S

OM650

OM525

Woofers	6.5 in. dual voice coil, polypropylene / mica composite, butyl rubber surround	6.5 in. polypropylene / mica composite, butyl rubber surround	5.25 in. polypropylene / mica butyl rubber surround
Tweeter	19mm dual voice coil, silk dome	19mm silk dome	19mm silk dome
Frequency Response	60Hz to 20kHz, +/- 3dB	58Hz to 20kHz, +/- 3dB	60Hz to 20kHz, +/- 3dB
Crossover	2nd order low Q @ 2.4kHz	2nd order low Q @ 2.4kHz	2nd order low Q @ 2.4kHz
Sensitivity	91dB	90dB	90dB
Impedance	6 Ohms	6 Ohms	6 Ohms
Rated Power	100W total, 50WPC RMS	100 Watts RMS	85 Watts RMS
Operating Temp.	-4°F to +140°F (-20°C to +60°C)	-4°F to +140°F (-20°C to +60°C)	-4°F to +140°F (-20°C to +60°C)
Dimensions	7-5/16 W x 13-5/16 H x 7-5/16 D in. (186 W x 338 H x 186 D mm)	7-5/16 W x 13-5/16 H x 7-5/16 D in. (186 W x 338 H x 186 D mm)	6-1/2 W x 9-1/2 H x 6-3/4 D in. (165 W x 242 H x 171 D mm)
Weight	10 lbs. / 4.5kg ea.	10 lbs. / 4.5kg ea.	8 lbs. / 3.6kg ea.
Color	White only	White or Black	White only

SPECIFICATIONS

OE650

OE525

Woofers	6.5 in. polypropylene / carbon composite, butyl rubber surround	5.25 in. polypropylene / carbon composite, butyl rubber surround
Tweeter	13mm silk diaphragm	13mm silk diaphragm
Frequency Response	60Hz to 20kHz, +/- 3dB	68Hz to 20kHz, +/- 3dB
Crossover	1st order, linear phase @ 3.1kHz	1st order, linear phase @ 3.1kHz
Sensitivity	89dB	89dB
Impedance	6 Ohms	6 Ohms
Rated Power	80 Watts RMS	60 Watts RMS
Operating Temp.	-4°F to +140°F (-20°C to +60°C)	-4°F to +140°F (-20°C to +60°C)
Dimensions	7-5/16 W x 13-5/16 H x 7-5/16 D in. (186 W x 338 H x 186 D mm)	6-1/2 W x 9-1/12 H x 6-3/4 D in. (165 W x 242 H x 171 D mm)
Weight	8.5 lbs. (4kg) ea.	6.5 lbs. (3kg) ea.
Color	White only	White or Black



Technologically Savvy.

Infrared repeating systems are the Phillips screwdriver of the installer's technology toolbox. You use them in every installation so they have to be reliable, cost effective, and preform without worry.

ELAN's IR Systems incorporate the very latest technologies along with innovative ideas that help you complete your projects cleaner and faster. From Extreme Plasma sensors to "naked" emitters, you'll find the tools you need in the next few pages.



IR Systems

IR SENSORS

Surface-mount, flush-mount or tabletop. CFL-friendly or extreme plasma conditions. ELAN carries a full line of high-quality IR Sensors for just about every application.

IRS1/IRS2 SURFACE-MOUNT IR SENSORS

ORDER NOS. IRS1B/IRS2B



This sleek-looking miniature IR Sensor can be surface mounted just about anywhere—cabinetry, TVs, walls—you name it. Its unique quad “mini” plug on the IRS1 connects to any ELAN IRD4 or IRD2 Distribution Block and provides system status and IR activity feedback to the on-board LEDs. Bare leads on the IRS2 make for easy system connections.

FEATURES

- Sleek, miniature surface-mount IR Sensor
- CFL-friendly design
- Ambient light filtration
- IR activity & system status LED indicators
- Full-color retail box standard (IRS1 only)
- Available in Black
- IRS1 w/ quad “mini” plug
- IRS2 w/ bare leads

IRS3/IRS4 FLUSH-MOUNT IR SENSORS

ORDER NOS. IRS3/IRS4



Designed to mount flush in a cabinet or wall, the IRS3's and IRS4's small footprint and low-profile bezel make it an ideal choice wherever an inconspicuous IR Sensor is needed. The 3.5 mm quad “mini” plug on the IRS3 makes for a quick connection to an ELAN IRD4 or IRD2 Distribution Block. Bare leads on the IRS4 provide for easy system connections.

FEATURES

- Low-profile flush-mount IR Sensor
- SFL friendly design
- Ambient light filtration
- Full-color retail box standard (IRS3 only)
- IRS3 w/quad “mini” plug
- IRS4 w/bare leads

IRS5 TABLETOP IR SENSOR W / PLUG

ORDER NO. IRS5



Small, sleek and attractive, the IRS5 was designed to sit on a cabinet, shelf, tabletop or any flat service. The weighted base and non-slip, no-scuff pad ensure that it remains where you place it. The IRS5 features system status and IR activity LEDs and a quad “mini” plug for easy connection to the ELAN IRD4 Amplified IR Distribution Block.

FEATURES

- Small, sleek styling for table / cabinet-top applications
- CFL friendly design
- Ambient light filtration
- Weighted base with non-skid, no-scuff pad
- IR activity & system status LED indicators
- Available in Black
- Full-color retail box standard

IRS7EP EXTREME PLASMA SURFACE-MOUNT IR SENSOR W/ PLUG

ORDER NO. IRS7EP



Specifically designed for extreme plasma or severe CFL environments, the IRS7EP provides reliable IR data transmissions even under the harshest circumstances. The two-piece design allows you to hide the main module inside a cabinet while the small, unobtrusive sensor module can be adhered to any flat service. A quad “mini” plug provides an easy connection to the ELAN IRD4 Amplified IR Distribution Block.

FEATURES

- Reliable IR control in extreme plasma or CFL environments
- 2-piece design allows tiny Sensor module to be mounted discreetly
- IR Activity LED indicator on main module
- Quad “mini” plug for easy connection to the ELAN IRD4 Amplified IR Distribution Block
- Full-color retail box standard

IRS8EP EXTREME PLASMA SURFACE-MOUNT IR SENSOR W/ BARE LEADS

ORDER NO. IRS8EP



The IRS8EP features the same extreme plasma and severe CFL design as the IRS7EP, but comes with bare leads for the custom installer.

FEATURES

- Reliable IR control in extreme plasma or CFL environments
- 2-piece design allows tiny Sensor module to be mounted discreetly
- IR Activity LED indicator on main module
- Bare leads for quick & easy system connections
- 4-position termination block (incl.)
- Non-retail packaging

IR EMITTERS

ELAN offers a wide variety of IR Emitters for every application, and all are designed for the reliable transmission of any infrared signal. Each single- or dual-head Emitter comes with a unique docking module that stays in place on the IR window while allowing for the easy removal of the Emitter when rearranging or servicing A/V components. The docking module's larger surface area also provides better adhesion to component IR windows.

The Emitters' IR-transparent housing allows infrared from hand-held remotes to pass through to the component, allowing for in-room, as well as system control of every source. All ELAN IR Emitters have eight-foot leads with a standard 3.5mm mono "mini" plug. Certain models include an IR blocking shield that prevents stray IR commands directed at other sources from interfering with source control.

IRE1 IR Emitter / IRE2 TALK BACK IR Emitter

ORDER NOS. IRE1 / IRE2



IRE1 FEATURES

- Single-head IR Emitter w / docking module
- IR shield & extra docking modules (incl.)
- Full-color retail box standard

IRE2 FEATURES

- Single-head IR Emitter w / "talk back" LED & docking module
- IR shield & extra docking modules (incl.)
- Full-color retail box standard

IRE1D DUAL IR Emitter / IRE2D DUAL TALK BACK IR Emitter

ORDER NOS. IRE1D / IRE2D



IRE1D FEATURES

- Dual-head IR Emitter w / docking modules
- Control two sources from one IR output port
- Ideal for ELAN "ALL" port applications
- IR shield & extra docking modules (incl.)
- Full-color retail box standard

IRE2D FEATURES

- Dual-head IR emitter w / "talk back" LEDs & docking modules
- Control two sources from one IR output port
- Ideal for ELAN "ALL" port applications
- IR shield & extra docking modules (incl.)
- Full-color retail box standard

IRE3 HIGH OUTPUT IR Emitter

ORDER NO. IRE3



The IRE3 allows control of multiple A / V components with a single Emitter. This adjustable 3-inch wand contains two high-output IR Emitters that operate at different frequencies of the IR spectrum, ensuring reliable control of a wide range of A / V components.

FEATURES

- Unique wand-shaped "blaster" can control an entire stack of components
- 2 high-output emitters for full spectrum IR control
- Installer-adjustable for perfect shelf overhang positioning
- Adhesive-backed for easy mounting
- Full-color retail box standard

IRE4 MICRO IR Emitter

ORDER NO. IRE4



This tiny, high-output Emitter was designed to be placed close to the IR Sensor inside a component – a neat, clean alternative to IR window-mounted Emitters.

FEATURES

- High-output micro emitter mounts inside A / V component
- Adhesive-backed for easy mounting
- Neat, tamper-proof IR control solution
- Non-retail packaging

IR DISTRIBUTION

Sensors "receive" IR data. Emitters "transmit" IR data. So how does one get this data from point A to point B? Quite easily, actually. In addition to offering a complete line of multi-room controllers that route IR to and from any room in the house, ELAN offers a line of stand-alone IR Distribution blocks for use in any stand alone application.

IRD2 PASSIVE IR CONNECTION BLOCK

ORDER NO. IRD2



Note: only 3.5 mm quad "mini" plugs can be connected to the 3.5 mm IR Sensor input jack of the IRD2. If the IRD2 is to be connected to the IR output of any other ELAN product, use only the 3.5 mm quad-to-mono interconnect cable included with the IRD2.

For basic IR repeating systems, this one-input by two-output Passive IR Connection Block provides a quick and easy means for connecting an ELAN IR Sensor and two IR Emitters. Current-sharing resistors at each emitter jack allow any combination of single- or dual-emitters to be used. The STATUS input jack allows you to monitor the ON / OFF condition of systems components (PWR2 Power Supply required for status feedback).

FEATURES

- Quick & easy connection for 1 ELAN IR Sensor & 2 ELAN IR Emitters
- Great for basic IR repeater systems
- STATUS input jack tells if system is ON or OFF
- Quad "mini" plug-to-mono "mini" plug cable for ELAN controller IR output port applications (incl.)
- Strong adhesive backing for mounting on any flat surface
- Non-retail packaging

IRDKIT IR DISTRIBUTION KIT

ORDER NO. IRDKIT

With full-color retail packaging standard, the IRDKIT is the ideal off-the-shelf product for consumers who like to "do-it-themselves". The IRDKIT contains everything needed for a basic IR repeater system – a tabletop IR sensor, four IR emitters and the IRD4 Amplified IR Distribution Block with power supply.

IRD4 AMPLIFIED IR DISTRIBUTION BLOCK

ORDER NO. IRD4



Note: only 3.5 mm quad "mini" plugs can be connected to the 3.5 mm IR Sensor input jack of the IRD4. If the IRD4 is to be connected to the IR output of any other ELAN product, use only the 3.5 mm quad-to-mono interconnect cable included with the IRD4.

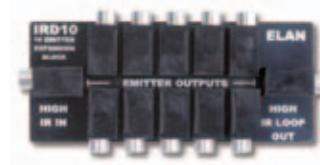
The ELAN IRD4 is the heart of any stand-alone IR distribution system. This amplified IR distribution block can connect quad-plug or bare-lead ELAN IR Sensors in one or more rooms and output their signals to up to four IR emitters. The IRD4's robust, wide-bandwidth amplifier incorporates reverse voltage protection so that it has the ability to drive both miniature and high-output emitters simultaneously. And the IRD4 is expandable! Up to ten IRD4s can be linked together to create a distributed IR system that encompasses every room in the house.

FEATURES

- Amplified hub for stand-alone IR distribution systems
- Easy connection of both quad-plug & bare-lead ELAN IR Sensors
- 4 output jacks handle both high- & low-output IR emitters
- Expandable! Link up to 10 IRD4s together for large systems
- Mounts on any flat surface (mounting screws incl.)
- Quad-to-mono "mini" plug cable incl. for ELAN controller applications
- Requires PWR2 or PWR3 Power Supply, depending on scope of system
- Full-color retail box

IRD10 PASSIVE IR Emitter Expansion Block

ORDER NO. IRD10



For use with the IRD4, this simple-to-use emitter expansion block allows you to expand the number of IR output ports in any system. Connecting the IRD10 to the high output emitter port of an IRD4 Amplified IR Distribution Block allows you to add up to ten additional IR emitters per IRD10 to the system for source control. The IR high-output loop port of the IRD10 allows you to add up to four additional IRD10s for a total of 50 emitters. The IRD10 even comes with a one-foot interconnect cable for quick and easy connection.

FEATURES

- Connects a single IR output to up to 10 IR Emitters
- Add more Emitters to an IRD4 Amplified IR Connection Block
- Ideal for expanding ELAN IR "ALL" Port capabilities
- Link up to five IRD10s using the high-output loop port
- 1-foot 3.5 mm "mini" plug interconnect cable (incl.)
- Non-retail packaging



FEATURES

- 1 box—everything you need!
- Kit includes:
 - (1) IRS5 CFL friendly tabletop IR Sensor
 - (4) IRE2 "talk back" IR Emitters
 - (4) IR Emitter Shields
 - (1) IRD4 Amplified IR Distribution Block
 - (1) Quad "mini" plug-to-mono "mini" plug cable for ELAN controller IR output port applications
 - (1) PWR2 12VDC / 200mA Power Supply
- Full-color retail box standard

IR ACCESSORIES

IRIC IR INTERCONNECT CABLE

ORDER NO. IRIC



Note: The IRIC IR Interconnect Cable can not be used w/the IRD4 Amplified IR Distribution Block. For connecting the IRD4 to any ELAN IR output, use the 3.5 mm quad-to-mono interconnect cable incl. with the IRD4.

The IRIC is a 3.5 mm mono "mini" plug interconnect cable that is used for IR connections between ELAN multi-room controller IR output ports and any source that has a 3.5 mm IR input jack. Also perfect for routing the trigger outputs of ELAN multi-room controllers to ELAN amplifiers, Z•Fans and the Z•Power Controller.

FEATURES

- Plug-and-play cable for direct IR jack connections between components
- 3.5 mm plug-to-3.5 mm plug, 2 m length
- Available in pkgs. of 6
- Not for use with the IRD4 Amplified Distribution Block
- Non-retail packaging

IRYC IR Emitter "Y" CABLE

ORDER NO. IRYC



Designed specifically to allow you to control one source from two independent IR outputs, the IRYC is a one foot long "Y" cable that converts any ELAN IR Emitter into a dual-plug IR emitter. Internal diodes built into the IRYC prevent conflicts between IR outputs.

FEATURES

- 1-foot "Y" cable for dual-plug / single-emitter applications
- Internal diode protection
- Non-retail packaging

PWR2 200mA, 12 VOLT DC REGULATED POWER SUPPLY

ORDER NO. PWR2



For use with the IRD4 Amplified IR Distribution Block, this regulated 200mA power supply is capable of powering the IRD4 and all the sensors and emitters connected to it. Full-color retail box is standard.

See pg 73 for Power Supply specifications

PWR3 DC REGULATED POWER SUPPLY

ORDER NO. PWR3



For larger distributed IR systems, this regulated 2.1 amp power supply will handle up to ten IRD4s and all the sensors and emitters connected to them. Full-color retail box is standard.



Toolbox.

It's how your finish the last 5% of a project that determines its success. From properly terminated wiring to the correct color wall plates, details matter. ELAN offers a vast assortment of products to help you finish your project in a first rate manner, collect that final payment and most importantly get referrals.

VOLUME CONTROLS
SENSORS
PRECISION PANELS
AUDIO / VIDEO WALL PLATES
ENCLOSURES & ACCESSORIES
POWER SUPPLIES



General Products

VOLUME CONTROLS

Available in Electronic, Slider and Rotary versions, ELAN's precision Volume Controls have a sleek, ergonomic design that makes them easy to use and a fit for any décor. All come with a Lifetime Warranty.

Engineered to precise specifications, all models utilize ELAN's Equi-Step™ technology which provides audibly equal volume increments over all 12 steps. Precision-wound transformers with vacuum impregnated high-grade silicon steel laminates ensure super-flat frequency response with no inductive resonance. Positive Temperature Coefficient (PTC) circuitry protects both the volume control and amplifier from damage in the event of a mis-wire.

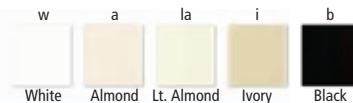
Each volume control has four impedance-match settings for optimal performance in multi-room applications. Labeled, removable connectors accept up to 14 AWG wire and are designed to go on only one way – making wire terminations trouble-free and easy.



ELAN's patented Override circuit, available on three models, allows page and door chime audio to be heard over the speakers even if the volume control is turned all the way down. Page and doorbell audio levels can be set individually for each room.

All ELAN Volume Controls ship standard in White, but are easily transformed with décor-matching trim kits available in White, Almond, Light Almond, Ivory and Black.

ORDER MODEL NO PLUS COLOR CODE:



COMMON FEATURES

- Sleek, ergonomic on-wall appearance
- Screw-less wall plates
- Electronic, slider & rotary models
- Patented Page / Doorbell Override feature (VSE2, VSOS, VMOS only)
- Equi-Step™ technology for smooth ramping
- PTC protection circuitry (except VSR35)
- 4 impedance-match settings
- Ships standard in White, Almond, Light Almond, Ivory, and Black trim kits sold separately
- Individually packaged in high-visibility retail carton
- Ships in quantities of 6
- Lifetime warranty

VSE2 100WPC ELECTRONIC VOLUME CONTROL w / OVERRIDE

ORDER NO. VSE2

Representing the state-of-the-art in volume control technology, the 100WPC VSE2 does away with the traditional rotary knob, opting for a sleek "keypad-type" look with low profile buttons. Micro-minature LEDs provide discrete, yet easy-to-see, volume level feedback. Large, user-friendly Volume UP and

DOWN buttons makes adjusting the level easy. The MUTE button mutes the volume completely. Page and doorbell Override levels, as well as turn-on levels, are easily programmable via the front buttons. A built-in IR receiver allows for armchair control from across the room. Remote control included.



VSE2 Remote

VSOS 100WPC STEREO VOLUME CONTROL w / OVERRIDE, SLIDER

ORDER NO. VSOS

VMOS 100WPC MONO VOLUME CONTROL w / OVERRIDE, SLIDER

ORDER NO. VMOS

VSS 100WPC STEREO VOLUME CONTROL, SLIDER

ORDER NO. VSS

Featuring smooth, 12-step sliders and a sleek, tapered design, these high-power volume controls meet the aesthetic standards of your clients and the design standards for all your multi-room applications. The VSOS and VMOS, with ELAN's patented Page/Doorbell Override control, feature easy-to-configure jumpers that allow you to set the page and doorbell override

levels in each room. Mono volume controls, such as the VMOS, have numerous applications in distributed audio systems. In fact, any room without a stationary listening area is a prime candidate for speakers with a combined Left/Right signal. The VSS is perfect for rooms where page & doorbell override is not required.



VSR 100WPC STEREO VOLUME CONTROL, ROTARY

ORDER NO. VSR



VSR35 35WPC STEREO VOLUME CONTROL, ROTARY

ORDER NO. VSR35

ELAN offers two Decora®-style stereo volume controls with traditional rotary knobs that incorporate the same precision engineering and sound quality as their "slider" counterparts.

The VSR is a high-power rotary volume control rated at 100WPC RMS. The VSR35, rated at 35WPC RMS, is ideal for low-power applications and boasts a price that can accommodate any budget.

Volume Control Specifications

	VSE2*	VSOS	VMOS	VSS	VSR	VSR35
Type	Electronic	Slider	Slider	Slider	Rotary	Rotary
Stereo/Mono	Stereo	Stereo	Mono	Stereo	Stereo	Stereo
Override	Yes	Yes	Yes	No	No	No
Power Handling	100 WPC RMS	100 WPC RMS	100 W RMS	100 WPC RMS	100 WPC RMS	35WPC RMS
Impedance Match Setting	1x, 2x, 4x, 8x	1x, 2x, 4x, 8x	2x, 4x, 8x, 16x	1x,2x, 4x, 8x	1x, 2x, 4x, 8x	1x, 2x, 4x, 8x
Override Control	+12VDC @ 45mA	+12VDC @ 45mA	+12VDC @ 45mA	N/A	N/A	N/A
Maximum Attenuation	-56dB @ 8x, last step	-56dB @ 8x, last step	-56dB @ 16x, last step	-56dB @ 8x, last step	-56dB @ 8x, last step	-56dB @ 8x, last step
Compatible ELAN Amps	All	All	All	All	All	MAC24, A1240

All are cTUVus Certified: CE, IC, C-tick, FCC

*Requires PWR12 Power Supply for most applications

VWFK/VWSK WEATHERPROOF VOLUME CONTROL KITS

ORDER NO. VWFKW/VWSKW

ELAN Weatherproof Volume Control Kits provide a weather-tight enclosure for the VSR and VSR35 Stereo Volume Controls that allows you to install them outdoors or in high-humidity areas such as saunas and indoor pools.

The VWFK Weatherproof Flush-Mount Volume Control Kit is designed to seal tight around a flush-mounted, single-gang box. The VWSK Weatherproof Surface-Mount Volume Control Kit is made for surface-mount applications and can be mounted directly onto 3/4 in. PVC conduit.

Available in White, each kit features a UV-resistant face plate, low-profile knob, and weather-sealing gaskets that keep out the elements.

FEATURES

- Weather-tight enclosure for ELAN VSR & VSR35 rotary volume controls
- UV-resistant face plate & knob
- Available in White



VWFKW-LC



VWSKW-LC



ORDER MODEL NO PLUS COLOR CODE:

w	a	la	i	b
White	Almond	Lt. Almond	Ivory	Black

VOLUME CONTROL DESIGNER TRIM KITS

ORDER NO.	Description
VETK	Electronic Volume Control Trim Kit 6-pack
VSTK	Slider Volume Control Trim Kit 6-pack
VRTK	Rotary Volume Control Trim Kit 6-pack
	<ul style="list-style-type: none"> ▪ For use with all new Electronic, Slider & Rotary Volume Control models ▪ Precise color-matching of inserts, frames & knobs ▪ Individually packed in high-visibility retail carton ▪ Sold in 6-packs ▪ Colors: White, Almond, Light Almond, Ivory, and Black

ELAN®SENSE AUTOMATION SENSORS

Seven ways to add reliable power management and automation features to any system!

ELAN®SENSE Automation Sensors detect audio and video signals, as well as transitions in voltage, current, contact closures and light, adding advanced functionality to ELAN multi-room systems. When combined with an ELAN g! Home Controller, M86A S128P, S86P/A, SR1 or SS1, ELAN sensors become extremely powerful automation tools, providing "if / then / else" logic capabilities for power management and triggered events. Adjustable sensitivity and delay on most models make it easy to fine tune sensor activation for specific applications.

AUDIO SENSOR

ORDER NO. AUDSENSOR

Detects line-level audio. Female-to-male RCA adaptor connects in-line between either the left or right line-level audio output of any source and an A/V controller or receiver. Features adjustable sensitivity and delay.



VIDEO SENSOR

ORDER NO. VIDSENSOR

Detects composite video signals. Female-to-male RCA adaptor connects in-line between the component (Y, Pr, or Pb) or composite video output of any source or its destination. Features adjustable sensitivity and delay.



CURRENT/MAGNETIC FIELD SENSOR

ORDER NO. CRSENSOR

Detects AC current in power cords, as well as the AC magnetic fields generated by motors, transformers, TV's, etc. The CRSENSOR has a unique clamping device that accommodates a wide variety of different sized AC power cords. The base of the clamping device is removable when magnetic field detection is desired. Features adjustable sensitivity and delay.



VOLTAGE SENSOR

ORDER NO. VTSENSOR

Detects AC or DC voltage from 9-24 Volts. A two-terminal barrier strip is used to connect voltage + and – conductors. Perfect for use with the HC Series or multi-room controller, SS1 or SR1.



LIGHT/LED SENSOR

ORDER NO. LTSENSOR

Detects TOSLINK (optional) signals, LEDs and even the displays of many A/V components. Red and Green filters (included) allow for the detection of bi-color LEDs found on many components. Features adjustable sensitivity and delay.



CONTACT CLOSURE SENSOR

ORDER NO. CTSENSOR

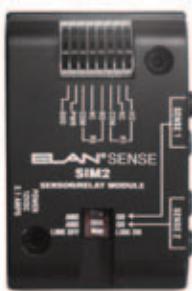
Detects dry contact relay closures. A two-terminal barrier strip is used to connect + and – conductors from relay devices. Ideal for use with any HC Series or multi-room controller, SS1 or SR1.



ELAN®SENSE AUTOMATION SENSORS continued

SIM2 SENSOR INTEGRATION MODULE

ORDER NO. SIM2



The SIM2 is a low-cost, simple automation solution designed to work seamlessly with ELAN®SENSE Sensors. The SIM2 functions as a stand-alone four sensor input/two relay output module that provides dry contact closure or 12V output in response to sensor input status. Built-in relays respond to sensor triggers differently based on conditional logic "and / or" dip switch settings on the unit. This allows any ELAN SENSE automation sensor, or standard motion, driveway or door/window sensor,

to intelligently trigger relays on the SIM2 based on the dip switch settings. The SIM2 is ideal for Home Theater automation applications, or any application that requires the use of automated triggering through the use of sensors.

FEATURES

- Simple automation solution for ELAN SENSE Automation Sensors
- 4 sensor inputs (1 pair for ea. relay)
- 2 relay outputs which provide contact closure or 12 volts
- Conditional and/or logic dipswitches provide intelligent relay triggering
- No software programming required
- Mounts on any flat surface (mounting screws & adhesive backing strip incl.)
- Includes 12VDC, 2.1A Power Supply

SPECIFICATIONS

Relays (x2)

Type NO / NC closed contact relay
Max. Rated Load Switched by Relay 0.5A @ 125VAC or 1A @ 24VDC

Sense Inputs (x4)

Connector	3.5 mm stereo jack
Tip	+5V power to sensor
Ring	Contact closure or ELAN SENSE open collector
Sleeve	Ground
Power	5VDC @ 90mA

Power Requirements

12VDC, 2.1A

Connector Power Output

+12VDC @ 0.65A

PRECISION PANELS

SPP SYSTEM PRECISION PANEL

ORDER NO. SPP



- The one Precision Panel for all ELAN Multi-Room Controllers
- For use w / S128P, S86P, S86A, M86A ,S66A, SS1, TS2 and all HC Series Controllers
- Provides quick, clean, reliable connectivity for all system wire runs
- In-wall or rack-mountable w / PRM2 Precision Panel Rack Mount Kit

Dimensions

Wall cut-out (in.) 8 W x 10-1/2 H
 (mm) 204 W x 267 H
 Installed w / frame (in.) 9-3/4 W x 12 H
 (mm) 248 W x 305 H

PSP12 12-PAIR SPEAKER PRECISION PANEL

ORDER NO. PSP12



PSP12 Dimensions

Wall Cutout (in.) 8 W x 10-1/2 H
 (mm) 204 W x 267 H
 Installed w / frame (in.) 9-3/4 W x 12 H
 (mm) 248 W x 305 H

PSP6 6-PAIR SPEAKER PRECISION PANEL

ORDER NO. PSP6



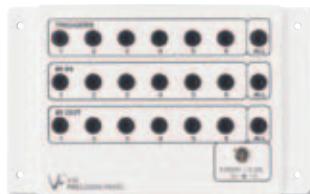
PSP6 requires PF2 Frame, see pg. 68

FEATURES FOR PSP12 & PSP6

- Easy-turn hex nut binding posts
- Connect speakers in every room to amps at the head end
- PSP12: full-size panel w / connections for 12 pr. of speakers
- PSP6: 1/2-frame panel w / connections for 6 pr. of speakers
- Binding posts accept up to 12AWG, spade lugs or banana plugs
- PSP6 requires PF2 Precision Panel Frame for installation, see pg. 68

PRECISION PANELS continued

PVSE ELECTRONIC VOLUME
CONTROL PRECISION PANEL
ORDER NO. PVSE



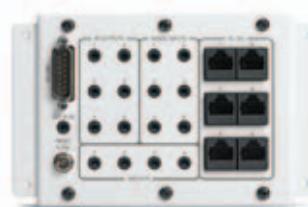
- 1/2-frame Precision Panel for all ELAN Electronic Volume Controls
- Easy to interface w / SPP Precision Panels
- Multiple PVSEs can be linked
- 110 punch-down connectors w / clearly labeled silkscreen for error-free terminations
- Front panel trigger, IR IN / OUT jacks for stand-alone applications
- PWR12 12V, 2A power supply (incl.)
- Fits in PF2 Precision Panel Frame (required for installation), see below

PV12 VIDEO PRECISION PANEL
ORDER NO. PV12



- 1/2-frame Video Precision Panel
- 12 F-to-RCA connectors
- Angled flanges for easy & safe coax wire management
- Perfect for use w / S128P, S86P, S86A, V85 & V8
- Fits in PF2 Precision Panel Frame (required for installation), see this page

PPWM HEAD-END I/O
PRECISION PANEL
ORDER NO. PPWM



- Connection point for rack-mount controller (HC6 / HC12)
- Provides connection point to IR outputs 7 -12
- Connects to PPIR, PPRM and PPIS
- Must use PF2 Mounting Frame (see this page)

PF2 PRECISION PANEL FRAME
ORDER NO. PF2

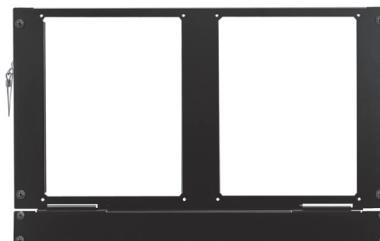


- Frame & insert for installing two half-frame Precision Panels
- Blank half-frame plate & mounting screws (incl.)
- PBKT6P Rough-In Brackets avail. in pkgs. of 6
- The PF2 is required for the installation of all half-frame Precision Panels

Dimensions

Wall Cutout	(in.) 8 W x 10-1/2 H (mm) 204 W x 267 H
Installed w / Frame	(in.) 9-3/4 W x 12 H (mm) 248 W x 305 H

PRM2 PRECISION PANEL
RACK-MOUNT KIT
ORDER NO. PRM2



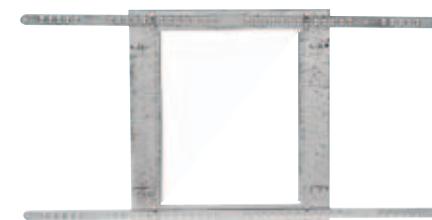
- Easy rack-mount solution for any ELAN Precision Panel
- Accommodates combinations of full & half-frame Precision Panels
- Hinged front panel w / support cables for easy punchdown connections
- Galvanized steel construction for maximum strength
- 8 Rack-mount & 8 panel-mount screws (incl.)

Dimensions

(in.) 19 W x 12-1/2 (7u) H
(mm) 483 W x 318 H

Note: Half-frame Precision Panels require PF2 Precision Panel Frame for mounting.

PBKT6P PRECISION PANEL
ROUGH-IN BRACKETS
ORDER NO. PBKT6P



- 20-gauge steel frame
- Router-friendly
- For use w / SPP, PSP12, PMP6 Precision Panels & PF2 Precision Panel Frame
- Available in pkgs. of 6

PRECISION PANELS continued

PPSP POWER DISTRIBUTION

WALL PLATE

ORDER NO. PPSP



- Supplies power for 3 (with PWR1) or 8 (with PWR4) in-wall panels
- PWR1 or PWR4 sold separately
- Single-gang Decora® design

PPVN VIA!NET DISTRIBUTION

WALL PLATE

ORDER NO. PPVN



- Provides Power to Four TS2's
- Provides Connection for IR from Four TS2's
- Includes 16v Power Supply
- Single-gang Decora® design

PPIS IR TO SERIAL WALL PLATE

ORDER NO. PPIS



- Converts IR signals to serial
- Simplifies connection of IR to HC Series RS-232 ports
- Single-gang Decora® design

PPRM ROOM IR OUT/SENSE RELAY WALL PLATE

ORDER NO. PPRM



- Connection point to distributor IR, sensor, relay, and serial or network
- Requires 2 Cat-5e to utilize all capabilities
- Easiest way to get connections from PPWM
- Single-gang Decora® design

PPIR ROOM IR TERMINATION WALL PLATE

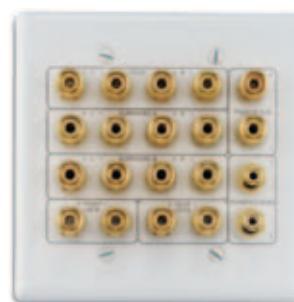
ORDER NO. PPIR



- IR sensor connection point
- Serial or Ethernet pass-through
- 2 Cat-5e required for IR sensor and RS-232/Ethernet use
- Single-gang Decora® design

HTWP700 HOME THEATER WALL PLATE

ORDER NO. HTWP700



- Hex nut speaker binding posts for quick & easy connections
- Accommodates all the speakers for 5.1, 6.1 & 7.1 surround sound systems
- Powered & passive subwoofer connections
- Fits in a standard 2-gang box

PPCM Can Mount Panel

ORDER NO. PPCM

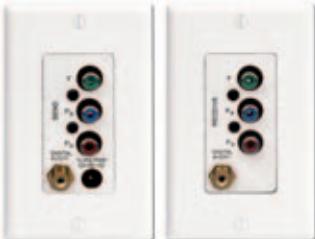


- Connects an enclosure-mounted controller to PPRMs and PPIR.
- For use with all HC Series Controllers
- Mounts in Enclosure

AUDIO/VIDEO WALL PLATES

CVWP COMPONENT VIDEO WALL PLATE KIT

ORDER NO. CVWP



The Component Video Wall Plate (CVWP) Kit extends high –and standard– definition component video wire runs up to 500 ft. over Cat-5 cable. The CVWP can be used in any system that requires component video signals be sent over long distances, and is the perfect mate to the S128P Multi-Room A/V Controller.

The CVWP can also be used to distribute local component video sources, such as DVD players and satellite receivers, back to the head end for

house-wide distribution through a S128P or other video switchers.

The CVWP Kit consists of 2 single-gang, Decora®-style wall plates: a SEND plate and a RECEIVE plate. DIP switches on the RECEIVE plate adjust the video gain level and contrast based on wire run length. Both plates also have F-to-F barrel connectors for routing digital audio over coaxial cable.

■ FEATURES

- Send component video signals up to 500 ft. w / o signal loss using Cat-5 cable
- Ideal for S128P component video distribution
- DIP-switch configurable for different wire run lengths
- Digital coax audio connectors
- Single-gang, Decora®-styling

SPECIFICATIONS

Send Plate

Input Imp.	75 Ohms, 1V pk-pk (3.4V max)
Output Imp.	50 Ohms
Bandwidth	. . . . . 450MHz (-3dB)
Channel Separation	. . . . . 90dB
Power	. . . . . 16VDC, 1.5A (incl.)

Receive Plate

Input Imp.	50 Ohms, (4.0V max)
Output Imp.	75 Ohms, 1V pk-pk (3.5V max)
Bandwidth:	. . . . . 150MHz (125MHz@500 ft.)
THD	. . . . . -50dBc
Network Gain	. . . . . 1.0
Power	. . . . . Supplied by Send Plate
Style	. . . . . White Decora®-style only

CVRM COMPONENT VIDEO RECEIVE PLATE

ORDER NO. CVRP



For use with the V85 Component Video Controller, the CVRM provides an easy, loss-free way to terminate Cat-5 wire runs on the back side and a component video cable on the front. DIP switches allow you to adjust the video gain level and contrast based on the length of the Cat-5 wire run.

■ FEATURES

- For use with V85 Component Video Controller
- Easy connection of Cat-5 video wire run & component video cable
- DIP-switch configurable for different wire run lengths
- Single-gang, Decora®-styling
- Available in White

SPECIFICATIONS

Input Imp.	50 Ohms, (4.0V max)
Output Imp.	75 Ohms, 1V pk-pk (3.5V max)
Bandwidth:	. . . . . 150MHz (125MHz@500 ft.)
THD	. . . . . -50dBc
Network Gain	. . . . . 1.0
Power	. . . . . Supplied by Send Plate
Style	. . . . . White Decora®-style only

LSPW S128P LOCAL SOURCE WALL PLATE KIT

ORDER NO. LSPW



Designed for use with the S128P's eight Local Source Inputs, the LSPW sends audio from any local source (e.g. a CD player in the Master Bedroom) back down to the S128P, and IR control signals from the S128P back to the local source.

Audio and IR are transmitted over a single run of Cat-5. Balanced differential line drivers ensure noise-free audio from sources located up to 300 ft. from the S128P. An IR OUT jack allows you to connect an IR emitter (included) for control of the source from that zone.

Kit includes:

- (1) Local Source Wall Plate
- (1) IR Emitter
- (2) 1-Meter Stereo Interconnect Cables
- (1) Leviton® Frame

SPECIFICATIONS

Input Level	. . . . . 0 – 2V RMS
Gain	. . . . . +1dB at Source plate, -1dB at S12, 0dB total
Freq. Resp.	. . . . . 20Hz to 20kHz, +/-0.5dB
THD + Noise	. . . . . <0.01%
IR Output Level	. . . . . +12V
IR Bandwidth	. . . . . 100kHz
Wire Requirements	. . . . . (Audio / IR) Cat-5, (Video) RG-6 Coax
Style	. . . . . White Decora®-style only

AUDIO/VIDEO WALL PLATES



RSWP REMOTE SOURCE WALL PLATE KIT

ORDER NO. RSWP



With the RSWP, any A/V source in any multi-room system can be located anywhere in the house.

The RSWP sends audio and video from any remotely-located A/V source (e.g. a DVD player in the Master Bedroom) back down to the head end, and IR control signals from the head end back to

the source over a single run of Cat-5. Balanced differential line drivers ensure noise-free audio from sources located up to 300 ft. from the head end. IR In/Out jacks on each plate allow for system-wide control of each source. An RCA-to-F video connector sends video back to the system over RG-6 coaxial cable.

Kit includes:

- (1) Source Wall Plate
- (1) System Wall Plate
- (1) IR Emitter
- (1) IR Interconnect Cable
- (2) 1M Stereo Interconnect Cables
- (2) 1M Video Interconnect Cables
- (2) Leviton® Frames
- (1) +12VDC Power Supply

SPECIFICATIONS

Input Level	0 – 2V RMS
Gain	+1dB at Source plate, -1dB @ System plate, 0dB total
Freq. Resp.	20Hz to 20kHz, +/-0.5dB
THD + Noise	<0.01%
IR Input / Output Levels	+12V
IR Bandwidth	100kHz
Wire Requirements	
(Audio / IR)	Cat-5
(Video)	RG-6 Coax
Input Power	+12VDC
Style	White Decora®-style only

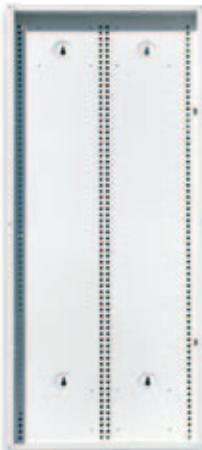
ENCLOSURES & ACCESSORIES

ENCLOSURES & ENCLOSURE COVERS

Available in two sizes to suit your needs these enclosures are UL or ETL listed and constructed from 16 gauge galvanized steel and feature industry standard grid mounting pattern. Use these enclosure to install your HC4 or HC8 home controllers and associated accessories.

E36 36" ENCLOSURE

ORDER NO. E36



- 36 in. H enclosure
- 70 x 2 grid spaces (140 total)
- Fits in standard 16 in. on-center stud bay
- Knock outs: (8) 2 in., (3) 3/4 in.

Dimensions:
(in.) 14-1/4 W x 36 H x 3-3/16 D
(mm) 362 W x 915 H x 97 D

C36 36" ENCLOSURE COVER

ORDER NO. C36



- 16-gauge galvanized steel cover for 36 in. enclosure
- Top & bottom vents

C36H 36" HINGED ENCLOSURE COVER

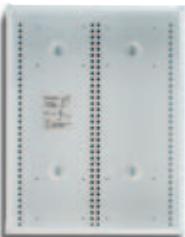
ORDER NO. C36H



- Hinged, easy-access cover for E36 enclosure
- Injection-molded plastic construction
- Increased ventilation
- Adds an extra 1 in. of depth

ENCLOSURES & ACCESSORIES continued

E18 18" ENCLOSURE ORDER NO. E18



- 18 in. H enclosure
- 34 x 2 grid spaces (68 total)
- Fits in standard 16 in. on-center stud bay
- Knock outs: (8) 2 in., (4) 3/4 in.

Dimensions:

(in.) 14-1/4 W x 18 H x 3-3/16 D
(mm) 362 W x 458 H x 97 D

ECS ENCLOSURE CABLE SPACER ORDER NO. ECS



- Lifts modules 1 in. above enclosure's grid for easy wire management
- Increases usable space
- For use w / E36 & E18 enclosures

HC4BKT HC4 BRACKET ORDER NO. HC4BKT



- Easy and clean mounting for the HC4 System Controller.
- Fits ELAN Enclosures

C18 18" ENCLOSURE COVER ORDER NO. C18



- 16-gauge galvanized steel cover for 18 in. enclosure
- Top & bottom vents

C18H 18" HINGED ENCLOSURE COVER ORDER NO. C18H



- Hinged, easy-access cover for E18 enclosure
- Injection-molded plastic construction
- Increased ventilation
- Adds an extra 1 in. of depth

EG2 2" ENCLOSURE GROMMETS ORDER NO. EG2



- Solid plastic grommets for 2 in. knockouts
- Facilitates easy routing of cables through knockouts
- Available in pkgs. of 5

ECT ENCLOSURE COUPLING TUBE ORDER NO. ECT



- 2 in. conduit-size tubes for passing cables between stacked enclosures
- For use w / E36 & E18 enclosures

SNSRBKT SENSOR BRACKET ORDER NO. SNSRBKT



Mount your ELAN Sensors and modems for HC Controllers into an ELAN Enclosure using this bracket.

- Fits ELAN Enclosures
- Provides for a clean installation

DH8 DATA HUB ORDER NO. DH8



The DH8 is an eight-port data hub with certified 100 Base-T performance. The DH8 features eight RJ-45 jacks for the termination of Cat-5 data lines and eight 110 punch-down connector blocks to route services to wall plates throughout the home.

FEATURES

- 8-line data hub
- Certified 100 Base-T performance
- Cat-5 performance in a multi-port hub
- (8) RJ-45 jacks
- (8) 110 punch-down connectors
- 6 grid spaces

POWER SUPPLIES

Many of the ELAN products that require external power supplies already have them included in the box. There are, however, other products where the type of power supply needed is determined by the system's configuration. ELAN makes a number of these power supplies available for separate purchase. The table below details their specifications and product-specific applications.



PWR4



PWR10



PWR2

Catalog Order No.	Output Voltage	Max. Load Current	Max. Power Output	Output Connection	Type	Regulated	Input Voltage	Included with:	Also for use with:
PWR1	16 VDC	1.5A	24W	⊖—●—⊕	Switcher	YES	100 to 240VAC	PPSP, PPVN PPWM, CVWP HR2	N/A
PWR2	12 VDC	200mA	2.4W	⊖—●—⊕	Switcher	YES	100 to 240VAC	IRKIT	IRD4
PWR3	12 VDC	2.1A	25W	⊖—●—⊕	Switcher	YES	100 to 240VAC	CAM5000, SIM2, SS1, IP8	IRD4
PWR4	16 VDC	4.3A	68W	DIN	Switcher	YES	100 to 240VAC	N/A	PPSP, SPP
PWR9	9 VDC	100mA	0.9W	⊖—●—⊕	Linear	NO	120VAC (only)	N/A	SPP
PWR10	16 VDC	10A	160W	Binding Posts	Switcher	YES	100 to 240VAC	N/A	SPP
PWR12	12 VDC	2.1A	25W	⊕—●—⊖	Switcher	YES	100 to 240VAC	PZ600, PVSE	VSE2, PZ6